108TH CONGRESS 1ST SESSION

# S. 525

To amend the Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990 to reauthorize and improve that Act.

#### IN THE SENATE OF THE UNITED STATES

March 5, 2003

Mr. Levin (for himself, Ms. Collins, Mr. DeWine, Ms. Stabenow, Mr. Reed, Mr. Inouye, Mr. Voinovich, Mr. Kennedy, Mr. Leahy, Ms. Cantwell, Mr. Jeffords, Mr. Warner, Mr. Akaka, Mr. Fitzgerald, Mr. Durbin, and Mr. Bayh) introduced the following bill; which was read twice and referred to the Committee on Environment and Public Works

### A BILL

To amend the Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990 to reauthorize and improve that Act.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
- 4 (a) SHORT TITLE.—This Act may be cited as the
- 5 "National Aquatic Invasive Species Act of 2003".
- 6 (b) Table of Contents.—The table of contents of
- 7 this Act is as follows:
  - Sec. 1. Short title; table of contents.

- Sec. 2. Findings.
- Sec. 3. Definitions.

## TITLE I—PREVENTION OF INTRODUCTION OF AQUATIC INVASIVE SPECIES INTO WATERS OF THE UNITED STATES BY VESSELS

- Sec. 101. Prevention of introduction of aquatic invasive species into waters of the United States by vessels.
- Sec. 102. Armed services whole vessel management program.

## TITLE II—PREVENTION OF INTRODUCTION OF AQUATIC INVASIVE SPECIES BY OTHER PATHWAYS

- Sec. 201. Priority pathway management program.
- Sec. 202. Screening process for planned importations of live aquatic organisms.

## TITLE III—EARLY DETECTION; RAPID RESPONSE; CONTROL AND OUTREACH

- Sec. 301. Early detection.
- Sec. 302. Rapid response.
- Sec. 303. Dispersal barriers.
- Sec. 304. Environmental soundness.
- Sec. 305. Specific invasive species control programs.
- Sec. 306. Information, education, and outreach.

#### TITLE IV—AQUATIC INVASIVE SPECIES RESEARCH

- Sec. 401. Ecological, pathway, and experimental research.
- Sec. 402. Analysis.
- Sec. 403. Vessel pathway standards research.
- Sec. 404. Graduate education in systematics and taxonomy.

#### TITLE V—COORDINATION

- Sec. 501. Program coordination.
- Sec. 502. International coordination.

#### TITLE VI—AUTHORIZATION OF APPROPRIATIONS

Sec. 601. Authorization of appropriations.

#### TITLE VII—CONFORMING AMENDMENTS

Sec. 701. Conforming amendments.

#### 1 SEC. 2. FINDINGS.

- 2 Congress finds that—
- 3 (1) invasive species can cause devastating de-
- 4 clines in local, regional, and national species diver-
- 5 sity;

1	(2) aquatic invasive species continue to be in-
2	troduced into waters of the United States;
3	(3) aquatic invasive species damage infrastruc-
4	ture, disrupt commerce, out compete native species
5	reduce biodiversity, and threaten human health;
6	(4) the direct and indirect costs of aquation
7	invasive species to the economy of the United States
8	amount to billions of dollars per year;
9	(5) in the Great Lakes region, approximately
10	\$3,000,000,000 has been spent in the past 10 years
11	to mitigate the damage caused by a single invasive
12	species, the zebra mussel;
13	(6) recent studies have—
14	(A) demonstrated that, in addition to eco-
15	nomic damage, invasive species can cause enor-
16	mous ecological damage; and
17	(B) cited invasive species as the second
18	leading threat to endangered species;
19	(7) over the past 200 years, the rate of detected
20	marine and freshwater invasions in North America
21	has increased exponentially;
22	(8) wetlands suffer compound impacts from—
23	(A) terrestrial infestations (such as Nu-
24	tria):

1	(B) aquatic infestations (such as Hydrilla);
2	and
3	(C) riparian infestations (such as Purple
4	Loosestrife);
5	(9) the rate of invasions continues to be unac-
6	ceptable;
7	(10) infestations by aquatic invasive species
8	often spread and cause significant, negative regional,
9	national, and international effects;
10	(11) prevention of aquatic invasive species is
11	the most environmentally sound and cost-effective
12	management approach because once established,
13	aquatic invasive species are costly, and sometimes
14	impossible to control;
15	(12) to be effective, the prevention, early detec-
16	tion, and control of and rapid response to aquatic
17	invasive species should be coordinated regionally, na-
18	tionally, and internationally;
19	(13) research underlies every aspect of detect-
20	ing, preventing, controlling, and eradicating invasive
21	species, educating citizens and stakeholders, and re-
22	storing ecosystems;
23	(14) pathway management is the most prom-
24	ising approach to reducing unplanned introductions
25	of aquatic invasive species;

- 1 (15) consistent national screening criteria are 2 needed to evaluate the potential risk of nonnative 3 aquatic species;
  - (16) States and regions have specific problems with respect to aquatic invasive species and resources for addressing aquatic invasive species;
  - (17) an emphasis on research, development, and demonstration to support prevention efforts would likely result in a more cost-effective and successful approach to combating invasive species through preventing initial introduction;
  - (18) research, development, and demonstration to support prevention includes monitoring of pathways and ecosystems to track the introduction and establishment of invasive species, analysis of that data, and development and testing of technologies to prevent introduction through known pathways;
  - (19) the Aquatic Nuisance Species Task Force established by section 1201(a) of the Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990 (16 U.S.C. 4721(a)) has been directed by Congress to coordinate interagency responses to aquatic invasive species, but the provision of additional direction, and assignment of specific responsibilities,

- to various Federal agencies would accelerate those
  responses; and
- (20) it is in the interest of the United States to conduct a comprehensive and thorough research, development, and demonstration program on aquatic invasive species in order to better understand how aquatic invasive species are introduced and become established and to support efforts to prevent the introduction and establishment of those species.

#### 10 SEC. 3. DEFINITIONS.

- 11 Section 1003 of the Nonindigenous Aquatic Nuisance
- 12 Prevention and Control Act of 1990 (16 U.S.C. 4702) is
- 13 amended to read as follows:
- 14 "SEC. 1003. DEFINITIONS.
- 15 "In this Act:
- 16 "(1) ADMINISTRATOR.—The term 'Adminis-17 trator' means the Administrator of the Environ-
- mental Protection Agency.
- 19 "(2) AQUATIC ECOSYSTEMS.—The term 'aquat-
- 20 ic ecosystems' means freshwater, marine, and estua-
- 21 rine environments (including inland waters and wet-
- lands), located wholly in the United States.
- 23 "(3) Assistant Secretary.—The term 'As-
- sistant Secretary' means the Assistant Secretary of
- the Army for Civil Works.

1	"(4) Ballast water.—The term 'ballast
2	water' means any water (with its suspended matter)
3	used to maintain the trim and stability of a vessel.
4	"(5) Coastal voyage.—The term 'coastal voy-
5	age' means a voyage conducted entirely within the
6	exclusive economic zone.
7	"(6) Director.—The term 'Director' means
8	the Director of the United States Fish and Wildlife
9	Service.
10	"(7) Environmentally sound.—The term
11	'environmentally sound', when used in reference to
12	any activity or thing, refers to an activity or thing
13	that prevents, wholly or in part, introductions, or
14	controls infestations, of aquatic invasive species in a
15	manner that—
16	"(A) minimizes adverse effects on—
17	"(i) the structure and function of an
18	ecosystem; and
19	"(ii) nontarget organisms and eco-
20	systems; and
21	"(B) emphasizes the use of integrated pest
22	management techniques.
23	"(8) Exclusive economic zone.—The term
24	'exclusive economic zone' means the area comprised
25	of—

1	"(A) the Exclusive Economic Zone of the
2	United States established by Proclamation
3	Number 5030, dated March 10, 1983; and
4	"(B) the equivalent zones of Canada and
5	Mexico.
6	"(9) Great Lake.—The term "Great Lake"
7	means—
8	"(A) Lake Erie;
9	"(B) Lake Huron (including Lake Saint
10	Clair);
11	"(C) Lake Michigan;
12	"(D) Lake Ontario;
13	"(E) Lake Superior;
14	"(F) the connecting channels of those
15	Lakes, including—
16	"(i) the Saint Mary's River;
17	"(ii) the Saint Clair River;
18	"(iii) the Detroit River;
19	"(iv) the Niagara River; and
20	"(v) the Saint Lawrence River to the
21	Canadian border; and
22	"(G) any other body of water located with-
23	in the drainage basin of a Lake, River, or con-
24	necting channel described in any of subpara-
25	graphs (A) through (F).

1	"(10) Great lakes region.—The term 'Great
2	Lakes region' means the region comprised of the
3	States of Illinois, Indiana, Michigan, Minnesota,
4	New York, Ohio, Pennsylvania, and Wisconsin.
5	"(11) Indian tribe.—The term 'Indian tribe'
6	has the meaning given the term in section 4 of the
7	Indian Self-Determination and Education Assistance
8	Act (25 U.S.C. 450b).
9	"(12) Interbasin waterway.—The term
10	'interbasin waterway' means a waterway that con-
11	nects 2 distinct water basins.
12	"(13) International joint commission.—
13	The term 'International Joint Commission' means
14	the commission established by article VII of the
15	Treaty relating to boundary waters and questions
16	arising along the boundary between the United
17	States and Canada, signed at Washington on Janu-
18	ary 11, 1909 (36 Stat. 2448; TS 548).
19	"(14) Interstate organization.—The term
20	'interstate organization' means an entity that—
21	"(A) is established by—
22	"(i) an interstate compact approved
23	by Congress;
24	"(ii) an Act of Congress; or

1	"(iii) an international agreement to
2	which the United States is a party;
3	"(B)(i) represents 2 or more—
4	"(I) States (or political subdivisions of
5	States); or
6	"(II) Indian tribes;
7	"(ii) represents—
8	"(I) 1 or more States (or political
9	subdivisions of States); and
10	"(II) 1 or more Indian tribes; or
11	"(iii) represents the Federal Government
12	and 1 or more foreign governments; and
13	"(C) has jurisdiction over, serves as a
14	forum for coordinating, or otherwise has a role
15	or responsibility for the management of, any
16	land or other natural resource.
17	"(15) Introduction.—The term 'introduction'
18	means the transfer of an organism to an ecosystem
19	outside the historic range of the species of which the
20	organism is a member.
21	"(16) Invasion.—The term 'invasion' means
22	an infestation of an aquatic invasive species.
23	"(17) Invasive species.—The term 'invasive
24	species' means a nonindigenous species the introduc-
25	tion of which into an ecosystem may cause harm to

- the economy, environment, human health, recreation,or public welfare.
- "(18) Invasive species council.—The term
  Invasive Species Council' means the interagency
  council established by section 3 of Executive Order
  No. 13112 (42 U.S.C. 4321 note).
  - "(19) NEW SOURCE.—The term 'new source' means any source of nonnative species that may be introduced by construction that is commenced after the publication of a proposed regulation prescribing a standard of performance under this Act that is applicable to the source, if the standard is subsequently promulgated in accordance with this Act.
  - "(20) Nonindigenous species.—The term 'nonindigenous species' means any species in an ecosystem that enters that ecosystem from outside the historic range of the species.
  - "(21) Organism in trade' means an organism of a species or subspecies that has a documented history of being commercially imported into the United States in the period beginning on January 1, 1990, and ending on January 1, 2002.
- 24 "(22) Organism transfer.—The term 'organism transfer' means the movement of an organism

1	of any species from 1 ecosystem to another eco-
2	system.
3	"(23) Pathway.—The term 'pathway' means 1
4	or more routes by which an invasive species is trans-
5	ferred from 1 ecosystem to another.
6	"(24) PILOT SCALE TEST.—The term 'pilot
7	scale test' means a test—
8	"(A) that is conducted at less than full-
9	scale; and
10	"(B) the results of which can potentially
11	be extrapolated to the full scale.
12	"(25) Planned importation.—The term
13	'planned importation' means the purposeful move-
14	ment of a species into the territorial limits of the
15	United States.
16	"(26) Regional Panel.—The term 'regional
17	panel' means a panel convened in accordance with
18	section 1203.
19	"(27) Secretary.—The term 'Secretary'
20	means the Secretary of the department in which the
21	Coast Guard is operating.
22	"(28) Species.—The term 'species' means any
23	fundamental category of taxonomic classification, or
24	any viable biological material, ranking below a genus
25	or subgenus.

- 1 "(29) TASK FORCE.—The term 'Task Force'
  2 means the Aquatic Nuisance Species Task Force es3 tablished by section 1201(a).
- "(30) TERRITORIAL SEA.—The term 'territorial sea' means the belt of the sea measured from the baseline of the United States determined in accordance with international law, as set forth in Presidential Proclamation Number 5928, dated December 27, 1988.
  - "(31) Treatment.—The term 'treatment' means a mechanical, physical, chemical, biological, or other process or method of killing, removing, or rendering infertile, invasive species.
    - "(32) Type approval.—The term 'type approval' means an approval procedure under which a type of system is certified as meeting a standard established by law (including a regulation) for a particular application.
    - "(33) UNDER SECRETARY.—The term 'Under Secretary' means the Under Secretary of Commerce for Oceans and Atmosphere.
- 22 "(34) UNDESIRABLE IMPACT.—The term 'unde-23 sirable impact' means economic, human health, aes-24 thetic, or environmental degradation that is not nec-

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1	essary for, and is not clearly outweighed by, public
2	health, environmental, or welfare benefits.
3	"(35) Waters of the united states.—
4	"(A) IN GENERAL.—The term 'waters of
5	the United States' means the navigable waters
6	and territorial sea of the United States.
7	"(B) Inclusion.—The term 'waters of the
8	United States' includes the Great Lakes.".
9	TITLE I—PREVENTION OF IN-
10	TRODUCTION OF AQUATIC
11	INVASIVE SPECIES INTO WA-
12	TERS OF THE UNITED STATES
13	BY VESSELS
14	SEC. 101. PREVENTION OF INTRODUCTION OF AQUATIC
15	INVASIVE SPECIES INTO WATERS OF THE
16	UNITED STATES BY VESSELS.
17	(a) In General.—Section 1101 of the Nonindige-
18	nous Aquatic Nuisance Prevention and Control Act of
19	1990 (16 U.S.C. 4711) is amended to read as follows:
20	"SEC. 1101. PREVENTION OF INTRODUCTION OF AQUATIC
21	INVASIVE SPECIES INTO WATERS OF THE
22	UNITED STATES BY VESSELS.
23	"(a) Requirements for Vessels Operating in
24	WATERS OF THE UNITED STATES.—
25	"(1) Invasive species management plan.—

1	"(A) In general.—Effective beginning on
2	the date that is 180 days after the issuance of
3	guidelines pursuant to subparagraph (D) and
4	promulgation of any regulations under this sec-
5	tion, each vessel that is equipped with ballast,
6	and each towed vessel and structure, operating
7	in waters of the United States shall have in ef-
8	fect, and have available for inspection, an
9	aquatic invasive species management plan that
10	prescribes safe and effective means by which
11	the master of the vessel shall minimize intro-
12	ductions and transfers of invasive species by
13	any part of the vessel (including towed vessels),
14	pursuant to the guidelines or regulations appli-
15	cable to that vessel.
16	"(B) Specificity.—The management plan
17	shall be specific to the vessel (or group of ves-
18	sels with characteristics similar to that of the
19	vessel, as determined by the Secretary).
20	"(C) REQUIREMENTS.—The management
21	plan shall include, at a minimum, such informa-
22	tion as is requested by the Secretary pursuant
23	to subparagraph (D), including—

"(i) operational requirements to safely

and effectively comply with the ballast

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1	water management requirements under
2	paragraph (4);
3	"(ii) operational requirements to safe-
4	ly and effectively carry out any actions
5	consistent with a rapid response action re-
6	quired by States and approved by the Sec-
7	retary under section 1211;
8	"(iii) other requirements specified in
9	guidelines adopted by the International
10	Maritime Organization;
11	"(iv) a description of all reporting re-
12	quirements and a copy of each form nec-
13	essary to meet those requirements;
14	"(v) the position of the officer respon-
15	sible for implementation of ballast water
16	management and reporting procedures on
17	board;
18	"(vi) documents relevant to any bal-
19	last water management equipment or pro-
20	cedures;
21	"(vii) a description of the location of
22	access points for sampling ballast or sedi-
23	ments pursuant to paragraph (3)(B)(vi);
24	"(viii) a description of requirements
25	relating to compliance with any approved

1	rapid response strategy relevant to the voy-
2	age of the vessel;
3	"(ix) a contingency strategy applicable
4	under section 1211, if appropriate; and
5	"(x) such requirements described in
6	subsection (b) as are applicable to the ves-
7	sel.
8	"(D) Guidelines.—Not later than 18
9	months after the date of enactment of the Na-
10	tional Aquatic Invasive Species Act of 2003, the
11	Secretary shall issue final guidelines for the de-
12	velopment of invasive species management
13	plans, including guidelines that—
14	"(i) identify types of vessels for which
15	plans are required;
16	"(ii) establish processes for updating
17	and revising the plans; and
18	"(iii) establish criteria for compliance
19	with this subsection.
20	"(2) Records.—The master of a vessel shall—
21	"(A) maintain records of all ballast oper-
22	ations, for such period of time and including
23	such information as the Secretary may specify;

1	"(B) permit inspection of the records by
2	representatives of the Secretary and of the
3	State in which the port is located; and
4	"(C) transmit records to the National Bal-
5	last Information Clearinghouse established
6	under section 1102(f).
7	"(3) Best management practices.—
8	"(A) IN GENERAL.—Not later than 18
9	months after the date of enactment of the Na-
10	tional Aquatic Invasive Species Act of 2003, the
11	Secretary shall issue guidelines on best manage-
12	ment practices to eliminate or minimize and
13	monitor organism transfer by vessels.
14	"(B) Practices to be included.—The
15	best management practices shall include—
16	"(i) sediment management in trans-
17	oceanic vessels;
18	"(ii) minimization of ballast water up-
19	take in areas in which there is a greater
20	risk of harmful organisms entering ballast
21	tanks (such as areas with toxic algal
22	blooms or known outbreaks of aquatic
23	invasive species);

1	"(iii) avoidance of unnecessary dis-
2	charge of ballast water in a port that was
3	taken up in another port;
4	"(iv) to the maximum extent prac-
5	ticable, collection and the proper disposal
6	of debris from the cleaning of the hull;
7	"(v) proper use of anti-fouling coat-
8	ing; and
9	"(vi) provision of sample access ports
10	in ballast piping for sampling of ballast in-
11	take and discharge.
12	"(4) Ballast water management.—
13	"(A) In general.—Except as provided in
14	subparagraph (B) and subsection (c), each ves-
15	sel equipped with a ballast water tank that en-
16	ters a United States port shall comply with—
17	"(i) the standards described in para-
18	graphs (1) and (2) of subsection (b); and
19	"(ii) the regulations promulgated
20	under subsection (e) relating to ballast
21	water management.
22	"(B) Exceptions.—
23	"(i) Vessels operating entirely
24	WITHIN EXCLUSIVE ECONOMIC ZONE.—A
25	vessel equipped with a ballast tank that

1	operates entirely within the exclusive eco-
2	nomic zone shall not be required to comply
3	with the standard described in subsection
4	(b)(1).
5	"(ii) Vessels operating in en-
6	CLOSED AQUATIC ECOSYSTEMS.—
7	"(I) In general.—Subject to
8	subclause (II), a vessel equipped with
9	a ballast tank and that operates exclu-
10	sively in the upper 4 Great Lakes
11	(Lake Superior, Lake Michigan, Lake
12	Huron, and Lake Erie, and the con-
13	necting channels), or in another en-
14	closed aquatic ecosystem in which the
15	potential for movement of organisms
16	by natural and anthropogenic means
17	is not significantly altered by the
18	movement of the vessel, shall not be
19	required to comply with the standards
20	described in paragraphs (1) and (2) of
21	subsection (b).
22	"(II) Additional enclosed
23	AQUATIC ZONES.—The Administrator
24	and the Under Secretary, in consulta-
25	tion with regional panels of the Task

1	Force, may determine additional en-
2	closed aquatic zones that are covered
3	by subclause (I).
4	"(b) Ballast Water Management Standards
5	AND CERTIFICATION PROCEDURES.—
6	"(1) Interim standards.—
7	"(A) IN GENERAL.—Not later than 18
8	months after the date of enactment of the Na-
9	tional Aquatic Invasive Species Act of 2003, the
10	Secretary, with the concurrence of the Adminis-
11	trator and in consultation with the Task Force
12	shall promulgate final regulations establishing
13	interim standards indicating acceptable—
14	"(i) operational performance for bal-
15	last water exchange (including contingency
16	procedures in instances in which a safety
17	exemption is used pursuant to subsection
18	(k); and
19	"(ii) biological effectiveness of ballast
20	water treatment systems (including on-
21	shore facilities and facilities on board ves-
22	sels).
23	"(B) Requirements.—
24	"(i) Ballast water exchange.—
25	The interim standard for ballast water ex-

1	change described in subparagraph (A) shall
2	require—
3	"(I) at least 1 empty-and-refill
4	cycle on the high sea or in an alter-
5	native exchange area designated by
6	the Secretary, of each ballast tank
7	that contains ballast water to be dis-
8	charged into waters of the United
9	States;
10	"(II) in a case in which the mas-
11	ter of a vessel determines that compli-
12	ance with subclause (I) is impracti-
13	cable, a sufficient number of flow-
14	through exchanges of ballast water, on
15	the high sea or in an alternative ex-
16	change area designated by the Sec-
17	retary, to achieve replacement of at
18	least 95 percent of ballast water in
19	ballast tanks of the vessel, as deter-
20	mined by a certification dye study
21	conducted or model developed in ac-
22	cordance with protocols developed
23	under paragraph $(4)(B)(i)$ and re-
24	corded in the management plan of a

1	vessel pursuant to subsection
2	(a)(1)(C)(i); and
3	"(III) an approved contingency
4	procedure using best practicable tech-
5	nology or practices in instances in
6	which a ballast water exchange is not
7	undertaken pursuant to subsection
8	(k).
9	"(ii) Ballast system design and
10	WATER TREATMENT SYSTEMS.—The in-
11	terim standard for a ballast water system
12	design and treatment system described in
13	subparagraph (A) shall require that at
14	least 95 percent of the live aquatic
15	vertebrates, invertebrates, phytoplankton,
16	and macroalgae, respectively, in ballast
17	water taken in by a vessel or class of ves-
18	sels be killed or removed from ballast dis-
19	charge as determined by the qualified type
20	approved process promulgated under para-
21	graph (4)(B)(ii)
22	"(iii) Criteria; period of effec-
23	TIVENESS.—The interim standards de-
24	scribed in clauses (i) and (ii) shall—

1	"(I) meet occupational safety and
2	environmental soundness criteria de-
3	scribed in paragraph (7); and
4	"(II) cease to apply on the effec-
5	tive date of final standards developed
6	pursuant to paragraph (2).
7	"(2) Final standards.—
8	"(A) IN GENERAL.—Not later than 4 years
9	after the date of enactment of the National
10	Aquatic Invasive Species Act of 2003, the Ad-
11	ministrator, in consultation with the Task
12	Force and with the concurrence of the Sec-
13	retary, shall promulgate final standards for bal-
14	last water discharge and other vessel operations
15	determined to pose a significant risk to the en-
16	vironment through the introduction of non-
17	indigenous species.
18	"(B) REQUIREMENTS.—The final stand-
19	ards shall—
20	"(i) result from application of the best
21	available technology economically achiev-
22	able for—
23	"(I) the applicable category or
24	class of vessels: and

1	"(II) the new source or existing
2	source status;
3	"(ii) have the goal of eliminating the
4	risk of introduction of nonnative species
5	(including plant, animal, and human
6	pathogens) into waters of the United
7	States by vessels of nonnative species, in-
8	cluding plant, animal, and human patho-
9	gens;
10	"(iii) consider findings of scientific
11	and policy research, including research
12	conducted pursuant to this Act; and
13	"(iv) be measurable.
14	"(3) Certification of treatments and en-
15	FORCEMENT.—
16	"(A) IN GENERAL.—Not later than the
17	date on which interim standards are promul-
18	gated under paragraph (1) and final standards
19	are promulgated pursuant to paragraph (2)(A),
20	the Secretary shall, with the concurrence of the
21	Administrator, promulgate regulations for—
22	"(i) the certification of treatments or
23	practices that comply with the standards;
24	and

1	"(ii) on-going enforcement of the use
2	of the treatments or practices.
3	"(B) CERTIFICATION UNDER INTERIM
4	STANDARDS.—The certification of treatments
5	and practices in compliance with the interim
6	standard promulgated pursuant to paragraph
7	(1) shall be based on a qualified type approval
8	process, including—
9	"(i) a protocol for ballast water ex-
10	change involving dye studies or models de-
11	tailing flow dynamics of vessels described
12	in paragraph $(1)(B)(i)(II)$ ; and
13	"(ii) a protocol for qualified type ap-
14	proval of ballast water treatment systems
15	for the interim standard described in para-
16	graph (1) that—
17	"(I) is capable of determining the
18	extent to which a ballast water treat-
19	ment system complies with applicable
20	standards including limitations on
21	that compliance caused by—
22	"(aa) biological, chemical, or
23	physical conditions of water
24	taken into ballast; and

1	"(bb) conditions encountered
2	during a voyage;
3	"(II) is capable of determining
4	the extent to which a ballast water
5	treatment system—
6	"(aa) is environmentally
7	sound, based on criteria promul-
8	gated by the Administrator under
9	paragraph (7)(A); and
10	"(bb) is safe for vessel and
11	crew;
12	"(III) may be used in estimating
13	the expected useful life of the ballast
14	water treatment system, as deter-
15	mined on the basis of voyage patterns
16	and normal use conditions;
17	"(IV) includes a shipboard test-
18	ing component, and may include a
19	shore-based testing component;
20	"(V) provides for appropriate
21	monitoring; and
22	"(VI) is cost effective.
23	"(C) CERTIFICATION UNDER FINAL
24	STANDARDS.—The certification of treatments in

1	compliance with the final standards promul-
2	gated pursuant to paragraph (2) shall—
3	"(i) apply to all methods of ballast
4	water management and system design, in-
5	cluding—
6	"(I) ballast water exchange;
7	"(II) ballast water treatment sys-
8	tems; and
9	"(III) other vessel operations de-
10	termined to pose a significant risk to
11	the environment through the introduc-
12	tion of nonnative organisms;
13	"(ii) be reviewed and, as appropriate,
14	revised not less often than every 3 years
15	pursuant to subsection (f)(1);
16	"(iii) meet occupational safety and en-
17	vironmental soundness criteria described in
18	paragraph (7); and
19	"(iv) apply beginning not later than
20	October 1, 2011.
21	"(4) Experimental approval for ballast
22	WATER TREATMENT.—
23	"(A) In general.—Subject to subpara-
24	graph (B), if, before the date on which the Sec-
25	retary promulgates interim ballast water man-

1	agement standards under paragraph (1), an
2	owner or operator of a vessel seeks to conduct
3	a treatment of ballast water—
4	"(i) the owner or operator shall apply
5	to the Secretary for experimental approval
6	of the treatment; and
7	"(ii) the Secretary shall approve the
8	treatment if—
9	"(I) the owner or operator pro-
10	vides to the Secretary independent,
11	peer-reviewed, pilot-scale information
12	relating to the effectiveness and envi-
13	ronmental soundness of the treatment;
14	"(II) the Secretary and the Ad-
15	ministrator, in consultation with the
16	Task Force (including relevant re-
17	gional panels, and the Prevention
18	Committee, of the Task Force), deter-
19	mine that the technology to be used
20	for the treatment has significant po-
21	tential to kill or remove at least 95
22	percent of the aquatic vertebrates, in-
23	vertebrates, phyto-plankton, and
24	macro algae, respectively, in ballast
25	water taken in by the class of vessel

1	for which the treatment is sought to
2	be conducted; and
3	"(III) the Administrator deter-
4	mines that the treatment meets envi-
5	ronmental regulations.
6	"(B) Limitations.—
7	"(i) Period of Testing.—Testing of
8	the treatment system approved under this
9	section may cease prior to the termination
10	of the approval period described in clause
11	(ii).
12	"(ii) Period of Approval.—Ap-
13	proval granted under subparagraph (A)
14	shall be for the least of—
15	"(I) a period of 10 years;
16	"(II) the expected life of the
17	treatment system; or
18	"(III) a period ending on the
19	date that the Secretary and Adminis-
20	trator (as appropriate) determines
21	that there exists a serious deficiency
22	in performance or human safety or
23	environmental soundness of the sys-
24	tem relative to anticipated perform-
25	ance or environmental soundness.

1	"(iii) Information.—As a condition
2	of receiving experimental approval for a
3	treatment under subparagraph (A)(ii), the
4	owner or operator of a vessel shall agree to
5	collect and report such information regard-
6	ing the operational and biological effective-
7	ness of the treatment through sampling of
8	the intake and discharge ballast as the
9	Secretary may request.
10	"(iv) Renewal.—An experimental
11	approval may be renewed pursuant to
12	paragraph (7)(B).
13	"(5) Incentives for use of treatment sys-
14	TEMS.—
15	"(A) IN GENERAL.—The Secretary, the
16	Secretary of Transportation, and the Adminis-
17	trator shall assist owners or operators of vessels
18	that seek to obtain experimental or interim ap-
19	proval for installation of ballast water treat-
20	ment systems, including through providing
21	guidance on—
22	"(i) a sampling protocol and test pro-
23	gram for cost effective treatment evalua-
24	tion;

1	"(ii) sources of sampling equipment
2	and field biological expertise; and
3	"(iii) examples of shipboard evalua-
4	tion studies.
5	"(B) Selection of Technologies and
6	PRACTICES.—In selecting technologies and
7	practices for shipboard demonstration under
8	section 1104(b), the Secretary of the Interior
9	and the Secretary of Commerce shall give pri-
10	ority consideration to technologies and practices
11	that have received or are in the process of re-
12	ceiving approval under paragraphs (1) and (4).
13	"(C) Annual summaries.—The Secretary
14	shall annually summarize, and make available
15	to interested parties, all available information
16	on the performance of technologies proposed for
17	ballast treatment to facilitate the application
18	process for experimental approval for ballast
19	water treatment under paragraph (4).
20	"(6) Application for approval.—
21	"(A) IN GENERAL.—The Secretary and the
22	Administrator shall approve an application for
23	certification of a ballast water treatment system
24	only if the application is in such form and con-

1	tains such information as the Secretary and Ad-
2	ministrator may require.
3	"(B) APPROVAL AND DISAPPROVAL.—
4	"(i) In general.—On receipt of an
5	application under subparagraph (A)—
6	"(I) the Administrator shall, not
7	later than 90 days after the date of
8	receipt of the application—
9	"(aa) review the application
10	for compliance and consistency
11	with environmental soundness
12	criteria promulgated under para-
13	graph $(7)(A)$ ; and
14	"(bb) approve those ballast
15	water treatment systems that
16	meet those criteria; and
17	"(II) the Secretary, in consulta-
18	tion with the Task Force, shall, not
19	later than 180 days after the date of
20	receipt of the application—
21	"(aa) determine whether the
22	ballast water treatment system
23	covered by the application meets
24	the requirements of this sub-
25	section, as appropriate;

1	"(bb) approve or disapprove
2	the application; and
3	"(cc) provide the applicant
4	written notice of approval or dis-
5	approval.
6	"(ii) Limitations.—An application
7	approved under clause (i) shall—
8	"(I) be qualified with any limita-
9	tions relating to voyage pattern, dura-
10	tion, or any other characteristic that
11	may affect the effectiveness or envi-
12	ronmental soundness of the ballast
13	water treatment system covered by
14	the application, as determined by the
15	Secretary in consultation with the Ad-
16	ministrator;
17	"(II) be applicable to a specific
18	vessel or group of vessels, as deter-
19	mined by the Secretary;
20	"(III) be valid for the least of—
21	"(aa) the expected useful life
22	of the ballast water treatment
23	system;
24	"(bb) 10 years; or

1	"(cc) such period of time for
2	which the Secretary or Adminis-
3	trator (as appropriate) deter-
4	mines that (based on available in-
5	formation, including information
6	developed pursuant to paragraph
7	(4)(B)(iii)) there exists a serious
8	deficiency in performance or envi-
9	ronmental soundness of the sys-
10	tem relative to anticipated per-
11	formance or environmental
12	soundness; and
13	"(IV) be renewed if—
14	"(aa) the Secretary deter-
15	mines that the ballast water
16	treatment system remains in
17	compliance with applicable stand-
18	ards as of the date of application
19	for renewal; or
20	"(bb) the remaining useful
21	life of the vessel is less than 10
22	years.
23	"(7) Environmental soundness criteria
24	FOR BALLAST TREATMENTS.—

1	"(A) In General.—The Administrator
2	shall include in criteria promulgated under sec-
3	tion 1202(k)(1)(A) specific criteria—
4	"(i) to ensure environmental sound-
5	ness of ballast treatment systems; and
6	"(ii) to grant environmental sound-
7	ness exceptions under subparagraph (B).
8	"(B) Exceptions.—
9	"(i) In general.—In reviewing appli-
10	cations under paragraph (6)(B)(i)(I) in an
11	emergency situation to achieve reductions
12	in significant and acute risk of transfers of
13	invasive species by vessels, the Secretary
14	and the Administrator may jointly deter-
15	mine to make an exception to criteria de-
16	scribed in subparagraph (A)(i).
17	"(ii) Qualification of approv-
18	ALS.—To be eligible for an exception under
19	clause (i), an approval under paragraph
20	(6)(B)(i)(I) shall be qualified under para-
21	graph (6)(B)(ii).
22	"(c) Design Features and Treatment Systems
23	FOR NEW VESSELS.—A vessel of which construction be-
24	gins on or after January 1, 2006, shall be equipped with

1	design features and ballast water treatment systems that
2	meet, at a minimum—
3	"(1) the interim standards described in sub-
4	section (b)(1)(B)(ii); or
5	"(2) on promulgation of final standards pursu-
6	ant to subsection (b)(2)(A), such final standard as
7	is applicable to the vessel.
8	"(d) Great Lakes Program.—
9	"(1) Regulations.—Until such time as regu-
10	lations are promulgated to implement the amend-
11	ments made by the National Aquatic Invasive Spe-
12	cies Act of 2003, regulations promulgated to carry
13	out this Act shall remain in effect until revised or
14	replaced pursuant to the National Aquatic Invasive
15	Species Act of 2003.
16	"(2) Relationship to other programs.—
17	On implementation of a national mandatory ballast
18	management program that is at least as comprehen-
19	sive as the Great Lakes program (as determined by
20	the Secretary, in consultation with the Governors of
21	Great Lakes States)—
22	"(A) the program regulating vessels and
23	ballast water in Great Lakes under this section
24	shall terminate; and

1	"(B) the national program shall apply to
2	such vessels and ballast water.
3	"(3) Review and Revision.—
4	"(A) IN GENERAL.—Not later than the
5	date that is 18 months after the date of enact-
6	ment of the National Aquatic Invasive Species
7	Act of 2003, the Secretary shall—
8	"(i) review and revise regulations pro-
9	mulgated under this section; and
10	"(ii) promulgate the revised regula-
11	tions.
12	"(B) Contents.—The revised regulations
13	shall include, at a minimum, requirements
14	under subsections (a) and (b) (as amended by
15	that Act).
16	"(e) Authority of the Secretary.—
17	"(1) In General.—The Secretary shall, with
18	the concurrence of the Administrator, promulgate
19	regulations to carry out this section.
20	"(2) Program components.—
21	"(A) In general.—In carrying out para-
22	graph (1), the Secretary shall promulgate a
23	separate set of regulations for—

1	"(i) ships that enter the Great Lakes
2	after operating outside the exclusive eco-
3	nomic zone; and
4	"(ii) ships that enter United States
5	ports after operating outside the exclusive
6	economic zone, excluding United States
7	ports on the Great Lakes.
8	"(B) Duration.—Regulations promul-
9	gated under subparagraph (A)(i) shall remain
10	in effect until the Great Lakes program is ter-
11	minated pursuant to (b)(1)(B).
12	"(3) Requirements.—The regulations promul-
13	gated under paragraph (1) shall—
14	"(A) be consistent with interim and final
15	standards promulgated under paragraphs (1)
16	and (2), respectively, of subsection (b);
17	"(B) apply to all vessels to which the re-
18	spective standards apply;
19	"(C) protect the safety of—
20	"(i) each vessel; and
21	"(ii) the crew and passengers of each
22	vessel;
23	"(D) provide for sampling of ballast intake
24	and discharge flows through ballast piping to
25	monitor for compliance with the regulations;

1	"(E) take into consideration—
2	"(i) vessel types;
3	"(ii) variations in the ecological condi-
4	tions of waters and coastal areas of the
5	United States; and
6	"(iii) different operating conditions;
7	"(F) be based on the best scientific infor-
8	mation available; and
9	"(G) not affect or supersede any require-
10	ments or prohibitions pertaining to the dis-
11	charge of ballast water into waters of the
12	United States under the Federal Water Pollu-
13	tion Control Act (33 U.S.C. 1251 et seq.).
14	"(4) Time frame and content.—In promul-
15	gating under paragraph (1), the Secretary shall—
16	"(A) not later than 18 months after the
17	date of enactment of the National Aquatic
18	Invasive Species Act of 2003 that are consistent
19	with the interim standards and certification
20	procedures promulgated under subsection (b)(1)
21	and other requirements of this section, require
22	a vessel—
23	"(i)(I) to carry out the exchange of
24	ballast water of the vessel in waters beyond
25	the exclusive economic zone in accordance

1	with the standards and certification proce-
2	dures promulgated under subsection $(b)(1)$ ;
3	or
4	"(II) in a case in which the master of
5	the vessel determines that compliance with
6	clause (i) is impracticable, to exchange the
7	ballast water of the vessel in other waters
8	in which the exchange does not pose a
9	threat of invasion or spread of nonindige-
10	nous species in waters of the United
11	States, as designated by the Secretary; and
12	"(ii) to use environmentally sound al-
13	ternatives ballast water management meth-
14	ods, including modification of the vessel
15	ballast water tanks and intake systems, if
16	the Secretary determines that such alter-
17	native methods are in accordance with
18	standards and certification procedures pro-
19	mulgated under subsection (b)(1); and
20	"(B) on promulgation of final standards
21	and certification procedures under subsection
22	(b)(2) that are consistent with the standards
23	and certification procedures, to comply with all
24	of the requirements of this section.

1 "(5) Consistency WITH INTERNATIONAL 2 AGREEMENTS.—The Secretary shall, with the con-3 currence of the Administrator, revise regulations 4 promulgated under this subsection as necessary to 5 ensure that the regulations relating to any matter 6 are consistent with the treatment of the matter in any international agreements, to which the United 7 8 States is a party, governing management of the 9 transfer by vessel of aquatic nonindigenous species.

- "(6) EDUCATION AND TECHNICAL ASSISTANCE PROGRAMS.—The Secretary may carry out education and technical assistance programs and other measures to promote compliance with the regulations promulgated under this subsection.
- 15 "(f) Periodic Review and Revision of Regula-16 tions.—
- 17 "(1) IN GENERAL.—Not later than 3 years 18 after the date of enactment of the National Aquatic 19 Invasive Species Act of 2003, and not less often 20 than every 3 years thereafter, the Secretary shall 21 (with the concurrence of the Administrator, based on 22 recommendations of the Task Force, and informa-23 tion collected and analyzed under this title and in 24 accordance with criteria developed by the Task 25 Force under paragraph (3))—

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1	"(A) assess the compliance by vessels with
2	regulations promulgated under this section;
3	"(B) assess the effectiveness of the regula-
4	tions referred to in subparagraph (A) in reduc-
5	ing the introduction and spread of aquatic
6	invasive species by vessels; and
7	"(C) as necessary, on the basis of the best
8	scientific information available—
9	"(i) revise the regulations referred to
10	in subparagraph (A); and
11	"(ii) promulgate additional regula-
12	tions.
13	"(2) Special review and revision.—Not
14	later than 90 days after the date on which the Task
15	Force makes a request to the Secretary for a special
16	review and revision of the Program, the Secretary
17	shall (with the concurrence of the Administrator)—
18	"(A) conduct a special review of regula-
19	tions in accordance with paragraph (1); and
20	"(B) as necessary, in the same manner as
21	provided under paragraph (1)(C)—
22	"(i) revise those guidelines; or
23	"(ii) promulgate additional regula-
24	tions.

1	"(3) Criteria for effectiveness.—Not
2	later than 1 year after the date of enactment of the
3	National Aquatic Invasive Species Act of 2003, and
4	every 3 years thereafter, the Task Force shall sub-
5	mit to the Secretary criteria for determining the
6	adequacy and effectiveness of all regulations promul-
7	gated under this section.
8	"(g) Sanctions.—
9	"(1) CIVIL PENALTIES.—
10	"(A) In General.—Any person that vio-
11	lates a regulation promulgated under this sec-
12	tion shall be liable for a civil penalty in an
13	amount not to exceed \$50,000.
14	"(B) SEPARATE VIOLATIONS.—Each day
15	of a continuing violation constitutes a separate
16	violation.
17	"(C) Liability of vessels.—A vessel op-
18	erated in violation of a regulation promulgated
19	under this Act shall be liable in rem for any
20	civil penalty assessed under this subsection for
21	that violation.
22	"(2) Criminal Penalties.—Any person that
23	knowingly violates the regulations promulgated
24	under subsection (b) is guilty of a class C felony.

1	"(3) Revocation of Clearance.—On request
2	of the Secretary, the Secretary of the Treasury shall
3	withhold or revoke the clearance of a vessel required
4	by section 4197 of the Revised Statutes (46 U.S.C.
5	App. 91), if the owner or operator of that vessel is
6	in violation of the regulations promulgated under
7	subsection (b).
8	"(4) Exception to sanctions.—This sub-
9	section does not apply to a failure to exchange bal-
10	last water if—
11	"(A) the master of a vessel, acting in good
12	faith, decides that the exchange of ballast water
13	will threaten the safety or stability of the vessel
14	or the crew or passengers of the vessel; and
15	"(B) the vessel complies with—
16	"(i) recordkeeping requirements of
17	this Act;
18	"(ii) contingency requirements of sec-
19	tion 1211; and
20	"(iii) reporting requirements of this
21	Act.
22	"(h) COORDINATION WITH OTHER AGENCIES.—The
23	Secretary is encouraged to use (with consent) the exper-
24	tise, facilities, members, or personnel of, appropriate Fed-

- 1 eral and State agencies and organizations that have rou-
- 2 tine contact with vessels, as determined by the Secretary.
- 3 "(i) Consultation With Canada, Mexico, and
- 4 OTHER FOREIGN GOVERNMENTS.—In developing the
- 5 guidelines issued and regulations promulgated under this
- 6 section, the Secretary is encouraged to consult with the
- 7 Government of Canada, the Government of Mexico, and
- 8 any other government of a foreign country that the Sec-
- 9 retary, in consultation with the Task Force, determines
- 10 to be necessary to develop and implement an effective
- 11 international program for preventing the unintentional in-
- 12 troduction and spread of nonindigenous species.
- 13 "(j) International Cooperation.—
- 14 "(1) In General.—The Secretary, in coopera-
- tion with the International Maritime Organization of
- the United Nations and the Commission on Environ-
- mental Cooperation established pursuant to the
- 18 North American Free Trade Agreement, is encour-
- aged to enter into negotiations with the governments
- of foreign countries to develop and implement an ef-
- 21 fective international program for preventing the un-
- intentional introduction and spread of nonindigenous
- species.
- 24 "(2) Sense of congress on international
- 25 AGREEMENTS TO PROTECT AQUATIC ECOSYSTEMS

1	FROM SPECIES INTRODUCTIONS THROUGH BALLAST
2	WATER.—
3	"(A) FINDINGS.—Congress finds that—
4	"(i) the aquatic ecosystems of the
5	United States have been and continue to
6	be subject to permanent and costly damage
7	resulting from aquatic invasive species in-
8	troduced by ballast water of vessels enter-
9	ing United States ports;
10	"(ii) the United States is currently
11	engaged in international negotiation over
12	regulation of the ballast water of vessels to
13	prevent the introductions;
14	"(iii) this Act and the amendments
15	made by this Act establish a minimum ac-
16	ceptable domestic effort to protect aquatic
17	ecosystems of the United States from the
18	introduction of invasive species by the bal-
19	last water of vessels; and
20	"(iv) the programs established under
21	this Act and the amendments made by this
22	Act address the fundamental and legiti-
23	mate operational and safety concerns of
24	the maritime industry.

"(B) Sense of congress.—It is the sense of Congress that the United States should become party to an international agreement that relates to the protection of aquatic eco-systems from the introduction of invasive spe-cies by the ballast water of vessels only if the agreement is at least as protective of the aquat-ic ecosystems as this Act and the amendments made by this Act.

### "(k) SAFETY EXEMPTION.—

- "(1) Master discretion.—The Master of a vessel is not required to conduct a ballast water exchange if the Master determines that the exchange would threaten the safety or stability of the vessel, or the crew or passengers of the vessel, because of adverse weather, vessel architectural design, equipment failure, or any other extraordinary conditions.
- "(2) OTHER REQUIREMENTS.—A vessel that does not exchange ballast water on the high seas under paragraph (1) shall not discharge ballast water in any harbor, except in accordance with a contingency strategy approved by the Secretary (and included in the invasive species management plan of the vessel) to reduce the risk of organism transfer by the discharge (using the best practicable tech-

- 1 nology and practices pursuant to regulations promul-
- 2 gated under subsection (b)(1)(B)(iii).
- 3 "(l) Non-Discrimination.—The Secretary shall en-
- 4 sure that vessels registered outside of the United States
- 5 do not receive more favorable treatment than vessels reg-
- 6 istered in the United States in any case in which the Sec-
- 7 retary performs studies, reviews compliance, determines
- 8 effectiveness, establishes requirements, or performs any
- 9 other responsibilities under this Act.
- 10 "(m) Effect on Other Law.—Nothing in this sec-
- 11 tion or any regulation promulgated under this section su-
- 12 persedes or otherwise affects any requirement or prohibi-
- 13 tion relating to the discharge of ballast water under the
- 14 Federal Water Pollution Control Act (33 U.S.C. 1251 et
- 15 seq.).".
- 16 (b) Conforming Amendments.—
- 17 (1) Section 1102(c)(1) of the Nonindigenous
- 18 Aquatic Nuisance Prevention and Control Act of
- 19 1990 (16 U.S.C. 4712(c)(1)) is amended by striking
- 20 "issued under section 1101(b)" and inserting "pro-
- 21 mulgated under section 1101(e)".
- 22 (2) Section 1102(f)(1)(B) of the Nonindigenous
- 23 Aquatic Nuisance Prevention and Control Act of
- 24 1990 (16 U.S.C. 4712(f)(1)(B)) is amended by
- striking "guidelines issued pursuant to section

1	1101(c)" and inserting "regulations promulgated
2	under section 1101(e)".
3	SEC. 102. ARMED SERVICES WHOLE VESSEL MANAGEMENT
4	PROGRAM.
5	Section 1103 of the Nonindigenous Aquatic Nuisance
6	Prevention and Control Act of 1990 (16 U.S.C. 4713) is
7	amended—
8	(1) by striking the section heading and insert-
9	ing the following:
10	"SEC. 1103. ARMED SERVICES WHOLE VESSEL MANAGE-
11	MENT PROGRAM.";
12	and
13	(2) in subsection (a)—
14	(A) by striking "Subject to" and inserting
15	the following:
16	"(1) Ballast water.—Subject to"; and
17	(B) by adding at the end the following:
18	"(2) Towed vessel management pro-
19	GRAM.—
20	"(A) In general.—Subject to operational
21	conditions, the Secretary of Defense, in con-
22	sultation with the Secretary, the Task Force,
23	and the International Maritime Organization,
24	shall implement a towed vessel management
25	program for Department of Defense vessels to

minimize the risk of introductions of aquatic invasive species through hull and associated hull aperture transfers by towed vessels.

"(B) Current ballast program.—Except as provided in subparagraph (A), this Act does not affect the ballast program for Department of Defense vessels in effect on the date of enactment of the National Aquatic Invasive Species Act of 2003.

"(3) Reports.—Not later than 3 years after the date of enactment of the National Aquatic Invasive Species Act of 2003, and every 3 years thereafter, the Secretary of Defense shall submit to Congress a report that includes a summary and analysis of the program carried out under this section.".

## 17 TITLE II—PREVENTION OF IN-

# 18 TRODUCTION OF AQUATIC

## 19 **INVASIVE SPECIES BY OTHER**

## 20 **PATHWAYS**

- 21 SEC. 201. PRIORITY PATHWAY MANAGEMENT PROGRAM.
- Subtitle C of title I of the Nonindigenous Aquatic
- 23 Nuisance Prevention and Control Act of 1990 (16 U.S.C.
- 24 4721 et seq.) is amended by adding at the end the fol-
- 25 lowing:

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### 1 "SEC. 1210. PRIORITY PATHWAY MANAGEMENT PROGRAM.

2	"(a) Identification of High Priority Path-
3	WAYS.—Not later than 2 years after the date of enactment
4	of the National Aquatic Invasive Species Act of 2003, and
5	every 3 years thereafter, the Task Force, in coordination
6	with the Invasive Species Council and in consultation with
7	representatives of States, industry, and other interested
8	parties, shall, based on pathway surveys conducted under
9	this title and other available research relating to the rates
10	of introductions in waters of the United States—
11	"(1) identify those pathways that pose the high-
12	est risk for introductions, both nationally and on a
13	region-by-region basis, unless further managed;
14	"(2) develop recommendations for management
15	strategies for those high-risk pathways;
16	"(3) include in the report to Congress required
17	under section 1201(f)(2)(B) a description of the
18	identifications, strategies, and recommendations
19	based on research collected under this title; and
20	"(4) identify invasive species not yet introduced
21	into waters of the United States that are likely to
22	be introduced into waters of the United States un-
23	less preventative measures are taken.
24	"(b) Management of High Priority Path-
25	WAYS.—Not later than 3 years after the date of enactment
26	of the National Aquatic Invasive Species Act of 2003, the

- 1 Task Force or agencies of jurisdiction shall, to the max-
- 2 imum extent practicable, implement the strategies de-
- 3 scribed in subsection (a)(2), considering appropriate peri-
- 4 odic updates to the strategies.".

#### 5 SEC. 202. SCREENING PROCESS FOR PLANNED IMPORTA-

- 6 TIONS OF LIVE AQUATIC ORGANISMS.
- 7 Subtitle B of the Nonindigenous Aquatic Nuisance
- 8 Prevention and Control Act of 1990 (16 U.S.C. 4711 et
- 9 seq.) is amended by adding at the end the following:
- 10 "SEC. 1105. SCREENING PROCESS FOR PLANNED IMPORTA-
- 11 TIONS OF LIVE AQUATIC ORGANISMS.
- 12 "(a) IN GENERAL.—Not later than 3 years after the
- 13 date of enactment of the National Aquatic Invasive Spe-
- 14 cies Act of 2003, no live aquatic organism not in trade
- 15 shall be imported into the United States without screening
- 16 and approval in accordance with subsections (c) and (d).
- 17 "(b) Guidelines.—
- 18 "(1) IN GENERAL.—Not later than 30 months
- after the date of enactment of the National Aquatic
- Invasive Species Act of 2003, in consultation with
- 21 regional panels convened under section 1203, States,
- 22 tribes, and other stakeholders, the Invasive Species
- Council (in conjunction with the Task Force) shall
- promulgate guidelines for screening proposed

1	planned importations of live aquatic organisms into
2	the United States that include—
3	"(A) guidelines for minimum information
4	requirements for determinations under sub-
5	section (e); and
6	"(B) guidelines for a simplified notification
7	procedure for any additional shipments of orga-
8	nisms that may occur after completion of an
9	initial screening process and determination
10	under subsection (c).
11	"(2) Purpose.—The purpose of the screening
12	process shall be to prevent the introduction or estab-
13	lishment of aquatic invasive species (including patho-
14	gens and parasites of the species) in waters of the
15	United States and contiguous waters of Canada and
16	Mexico.
17	"(3) Factors.—In developing guidelines under
18	this subsection and reviewing and revising the guide-
19	lines under subsection (j), the Invasive Species
20	Council and the Task Force shall consider—
21	"(A) the likelihood of the spread of orga-
22	nisms by human or natural means;
23	"(B) organisms that may occur in associa-
24	tion with the organism planned for importation

1	including pathogens, parasites, and free-living
2	organisms;
3	"(C) regional differences in probability of
4	invasion and associated impacts;
5	"(D) the difficulty of controlling an estab-
6	lished population of an aquatic invasive species
7	in the wild; and
8	"(E) the profile established under section
9	1108(b).
10	"(c) Categories.—The screening process shall—
11	"(1) require the identification, to the maximum
12	extent practicable, to the species level and, at a min-
13	imum, to the genus level, of live aquatic organisms;
14	and
15	"(2) designate—
16	"(A) species with high or moderate prob-
17	ability of undesirable impacts to areas within
18	the boundaries of the United States and contig-
19	uous areas of neighboring countries, to which
20	the organism is likely to spread; and
21	"(B) species with insufficient information
22	to determine the risk category based on guide-
23	lines issued pursuant to subsection $(b)(1)(B)$ .
24	"(d) Evaluation.—

"(1) IN GENERAL.—Not later than 180 days after the date of promulgation of guidelines under subsection (b), in consultation with regional panels convened under section 1203, States, tribes, and other stakeholders, a Federal agency with authority over an importation into the United States of a live organism not in trade and proposed for importation into the United States shall screen the organism in accordance with guidelines promulgated under subsection (b).

#### "(2) Delegation and authority.—

"(A) IN GENERAL.—Subject to subparagraph (B), if no agency has authority described in paragraph (1) or an agency delegates the screening to the Director under subsection (h), the Director shall screen the organisms in accordance with subsections (a) and (b).

"(B) United States fish and wildlife Service.—The Director may restrict or prohibit the importation of an organism in trade if—

"(i) no other Federal agency has authority to regulate the importation of the organism in trade; and

"(ii) the Director determines, based 1 2 on an evaluation that is consistent with the screening requirements promulgated under 3 4 subsection (g), that the organism in trade 5 has a high or moderate probability of an 6 undesirable impact to an area within the 7 boundaries of the United States or a con-8 tiguous area of a neighboring country, to 9 which the organism may spread.

### "(3) Multiple jurisdiction.—

"(A) IN GENERAL.—Subject to subparagraph (B), if more than 1 agency has jurisdiction over the importation of a live organism, the agencies shall conduct only 1 screening process in accordance with the memorandum of understanding described in subsection (f) (in consultation with National Oceanic and Atmospheric Administrator).

"(B) CULTURED AQUATIC ORGANISMS.— The Secretary of Agriculture shall conduct screening of organisms imported to be cultured.

22 "(e) Requirements.—A Federal agency of jurisdic-

23 tion, or the Director shall—

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1	"(1) restrict or prohibit the importation into
2	the United States from outside the United States of
3	any species that is described in subsection $(c)(1)$ ;
4	"(2) prohibit the importation of any species de-
5	scribed in subsection (c)(2), unless the importation
6	is for the sole purpose of research that is conducted
7	in accordance with section 1202(f)(2); and
8	"(3) make a determination under this sub-
9	section not later than 180 days after receiving a
10	complete request for permission to import a live
11	aquatic species.
12	"(f) Memorandum of Understanding.—
13	"(1) In general.—The Director of the United
14	States Fish and Wildlife Service shall enter into a
15	memorandum of understanding with the agencies of
16	jurisdiction regarding the screening requirements of
17	this section.
18	"(2) Contents.—The memorandum of under-
19	standing shall contain, at a minimum—
20	"(A) a description of the relationship be-
21	tween and responsibilities of the agencies of ju-
22	risdiction, including a process designating a
23	lead agency in cases in which multiple agencies
24	may have jurisdiction over the screening of an
25	aquatic species;

1	"(B) the process by which the Director will
2	delegate screening duties to and receive delega-
3	tion from other agencies of jurisdiction; and
4	"(C) the process by which agencies of ju-
5	risdiction and the Invasive Species Council will
6	coordinate and share information required for
7	the screening of species.
8	"(g) Screening Requirements.—The Director
9	shall promulgate screening requirements consistent with
10	the guidelines promulgated under subsection (b) to evalu-
11	ate any planned live aquatic species importation (including
12	an importation carried out by a Federal agency) from out-
13	side the borders of the United States into waters of the
14	United States that is—
15	"(1) not otherwise subject to Federal authority
16	to permit the importation; or
17	"(2) delegated to the Director by another agen-
18	cy of jurisdiction under subsection (h).
19	"(h) Delegation to Director.—Any agency with
20	authority over the planned importation of a live aquatic
21	organism may delegate to the Director the screening proc-
22	ess carried out under this section.
23	"(i) CATALOG OF ORGANISMS IN TRADE.—Not later
24	than 1 year after the date of enactment of the National
25	Aquatic Invasive Species Act of 2003, the Director of the

1	United States Geological Survey and the Director of the
2	Smithsonian Environmental Research Center, in coopera-
3	tion with agencies with jurisdiction over planned importa-
4	tions of live organisms, shall—
5	"(1) develop and, as necessary, update a cata-
6	log of organisms in trade; and
7	"(2) include the list in the information provided
8	to the public pursuant to section 1102(f).
9	"(j) REVIEW AND REVISION.—
10	"(1) In general.—At least once every 3 years,
11	the Council, in conjunction with the Task Force,
12	shall use research on early detection and monitoring
13	under section 1106, among other information
14	sources, to review and revise to the screening, guide-
15	lines, and process carried out under this section.
16	"(2) Report.—The Invasive Species Council
17	shall include in its report to Congress required pur-
18	suant to section $1201(f)(2)(B)$ —
19	"(A) an evaluation of the effectiveness of
20	the screening processes carried out under this
21	section;
22	"(B) the consistency of the application of
23	the screening process by agencies; and
24	"(C) recommendations for revisions of the
25	processes

1	"(k) Prohibitions.—
2	"(1) In general.—It shall be unlawful to im-
3	port an organism described in subsection (d), (e), or
4	(g).
5	"(2) Penalties.—
6	"(A) CIVIL PENALTY.—Any person that
7	violates paragraph (1) shall be liable for a civil
8	penalty in an amount not to exceed \$50,000.
9	"(B) Criminal penalties.—Any person
10	that knowingly violates paragraph (1) is guilty
11	of a class C felony.
12	"(l) Fees.—The head of any agency that has juris-
13	diction over a planned importation of a live organism sub-
14	ject to screening under this Act may increase the amount
15	of any appropriate fee that is charged under an authority
16	of law to offset the cost of any screening process carried
17	out under this section.
18	"(m) Information.—A Federal agency conducting
19	a screening process under this section shall make the re-
20	sults of the process available to the public (including inter-
21	national organizations).
22	"(n) Effect on Other Laws.—Nothing in this sec-
23	tion or any regulation promulgated under this section su-
24	persedes or otherwise affects any other provision of Fed-
25	eral or State law "

## 1 TITLE III—EARLY DETECTION;

## 2 RAPID RESPONSE: CONTROL

## 3 AND OUTREACH

- 4 SEC. 301. EARLY DETECTION.
- 5 Subtitle B of the Nonindigenous Aquatic Nuisance
- 6 Prevention and Control Act of 1990 (16 U.S.C. 4711 et
- 7 seq.) (as amended by section 202) is amended by adding
- 8 at the end the following:
- 9 "SEC. 1106. EARLY DETECTION AND MONITORING.
- 10 "(a) IN GENERAL.—Not later than 18 months after
- 11 the date of enactment of the National Aquatic Invasive
- 12 Species Act of 2003, in conjunction with the Council, the
- 13 Task Force shall (based on the standard protocol for early
- 14 detection surveys developed under this title), promulgate
- 15 a set of sampling protocols, a geographic plan, and budget
- 16 to support a national system of ecological surveys to rap-
- 17 idly detect recently-established aquatic invasive species in
- 18 waters of the United States.
- 19 "(b) Contents.—The protocols, plan, and budget
- 20 shall, at a minimum—
- 21 "(1) address a diversity of aquatic ecosystems
- of the United States (including inland and coastal
- waters);
- 24 "(2) encourage State, local, port, and tribal
- 25 participation in monitoring;

1	"(3) balance scientific rigor with practicability,
2	timeliness, and breadth of sampling activity;
3	"(4) considers the pathways and organisms
4	identified under section 1210;
5	"(5) include a capacity to evaluate the impacts
6	of permitted importations screened by the processes
7	established under section 1105; and
8	"(6) include clear lines of communication with
9	appropriate Federal, State, and regional rapid re-
10	sponse authorities.
11	"(c) Implementation.—Not later than 3 years after
12	the date of enactment of the National Aquatic Invasive
13	Species Act of 2003, the Director of the United States
14	Geological Survey, the Administrator of the National Oce-
15	anic and Atmospheric Administration, and the Adminis-
16	trator (in consultation with the Invasive Species Council
17	and in coordination with other agencies and organizations)
18	shall implement a national system of ecological surveys
19	that is—
20	"(1) carried out in cooperation with State,
21	local, port, tribal authorities, and other non-Federal
22	entities (such as colleges and universities); and
23	"(2) based on the protocols, plan, and budget
24	published under subsection (a) and any public com-
25	ment.".

#### 1 SEC. 302. RAPID RESPONSE.

- 2 Subtitle C of title I of the Nonindigenous Aquatic
- 3 Nuisance Prevention and Control Act of 1990 (16 U.S.C.
- 4 4721 et seq.) (as amended by section 201) is amended
- 5 by adding at the end the following:

#### 6 "SEC. 1211. RAPID RESPONSE.

- 7 "(a) State Rapid Response Contingency Strat-
- 8 EGIES.—
- 9 "(1) Emergency funds for rapid re-
- 10 SPONSE.—A State or multistate commission that has
- in effect a rapid response contingency strategy, in-
- 12 cluding rapid assessment capability, for invasive spe-
- cies in the State that is approved under paragraph
- (2) shall be eligible to receive emergency funding to
- remain available until expended to implement rapid
- 16 response measures for aquatic invasive species under
- the strategy, subject to renewal, as determined by
- the Secretary of the Interior and the Secretary in
- accordance with paragraph (2).
- 20 "(2) Approval of Rapid Response Contin-
- 21 GENCY STRATEGIES.—The Task Force, in consulta-
- 22 tion with the Invasive Species Council, shall approve
- a rapid response contingency strategy of a State or
- 24 multstate commission described in paragraph (1) if
- 25 the strategy—

1	"(A) identifies all key governmental and
2	nongovernmental partners to be involved in car-
3	rying out the strategy;
4	"(B) clearly designates the authorities and
5	responsibilities of each partner, including the
6	authority of any State or government of an In-
7	dian tribe to distribute emergency funds;
8	"(C) specifies criteria for rapid response
9	measures, including a diagnostic system that—
10	"(i) distinguishes cases in which rapid
11	response has a likelihood of success and
12	cases in which rapid response has no likeli-
13	hood of success;
14	"(ii) distinguishes rapid response
15	measures from ongoing management and
16	control of established populations of aquat-
17	ic invasive species; and
18	"(iii) distinguishes instances in which
19	the rate and probability of organism dis-
20	persal is significantly altered by vessel
21	movements;
22	"(D) includes an early detection strategy
23	that supports or complements the early detec-
24	tion and monitoring system developed under
25	section 1108;

1	"(E) provides for a monitoring capability
2	to assess—
3	"(i) the extent of infestations; and
4	"(ii) the effectiveness of rapid re-
5	sponse efforts;
6	"(F) to the maximum extent practicable, is
7	integrated into the State aquatic invasive spe-
8	cies management plan approved under section
9	1204;
10	"(G) to the maximum extent practicable
11	includes rapid response tools that meet environ-
12	mental criteria developed under subsection
13	(e)(4);
14	"(H) includes a public education and out-
15	reach component directed at—
16	"(i) potential pathways for spread of
17	aquatic invasive species; and
18	"(ii) persons involved in industries
19	and recreational activities associated with
20	those pathways; and
21	"(I) to the extent that the strategy involves
22	vessels, conforms with guidelines issued by the
23	Secretary under subsection (c)(2).
24	"(b) REGIONAL RAPID RESPONSE CONTINGENCY
25	STRATEGIES.—The Task Force, with the concurrence of

1	the Invasive Species Council and in consultation with the
2	regional panels of the Task Force established under sec-
3	tion 1203, shall encourage the development of regional
4	rapid response contingency strategies that—
5	"(1) provide a consistent and coordinated ap-
6	proach to rapid response; and
7	"(2) are approved by—
8	"(A) the Secretary; and
9	"(B) the Governors and Indian tribes hav-
10	ing jurisdiction over areas within a region.
11	"(c) Model Rapid Response Contingency
12	STRATEGIES.—Not later than 18 months after the date
13	of enactment of the National Aquatic Invasive Species Act
14	of 2003—
15	"(1) the Task Force, with the concurrence of
16	the Invasive Species Council and the regional panels
17	of the Task Force established under section 1203,
18	shall develop—
19	"(A) a model State rapid response contin-
20	gency strategy (including rapid assessment ca-
21	pability) for aquatic invasive species that meets,
22	to the maximum extent practicable, the require-
23	ments of subparagraphs (A) through (H) of
24	subsection (a)(2): and

1	"(B) a model regional rapid response con-
2	tingency strategy (including rapid assessment
3	capability) for aquatic invasive species; and
4	"(2) the Secretary, in concurrence with the
5	Task Force and the regional panels of the Task
6	Force, shall issue guidelines that describe vessel-re-
7	lated requirements that may be used in a rapid re-
8	sponse contingency strategy approved under this sec-
9	tion.
10	"(d) Cost Sharing.—
11	"(1) State rapid response contingency
12	STRATEGIES.—The Federal share of the cost of ac-
13	tivities carried out under a State rapid response con-
14	tingency strategy approved under subsection (a)
15	shall be not less than 50 percent.
16	"(2) Regional rapid response contingency
17	STRATEGIES.—The Federal share of the cost of ac-
18	tivities carried out under a regional rapid response
19	contingency strategy approved under subsection (b)
20	shall be not less than 75 percent.
21	"(e) Federal Rapid Response Teams.—
22	"(1) Establishment of teams.—Not later
23	than 1 year after the date of enactment of the Na-
24	tional Aquatic Invasive Species Act of 2003, the
	tional riquitie invasive species rice of 2005, the

Invasive Species Council, in coordination with the

1	Task Force and the heads of appropriate Federal
2	agencies, shall establish a Federal rapid response
3	team for each of the 10 Federal regions that com-
4	prise the Standard Federal Regional Boundary Sys-
5	tem.
6	"(2) Duties of Teams.—Each Federal rapid
7	response team shall, at a minimum—
8	"(A) implement rapid eradication or con-
9	trol responses for newly detected aquatic
10	invasive species on Federal and tribal land;
11	"(B) carry out, or assist in carrying out,
12	rapid responses for newly detected aquatic
13	invasive species on non-Federal land at the re-
14	quest of a State, Indian tribe, or group of
15	States or Indian tribes, with a rapid response
16	contingency strategy approved under subsection
17	(a) or (b);
18	"(C) provide training and expertise for
19	State, tribal, or regional rapid responders;
20	"(D) provide central sources of informa-
21	tion for rapid responders;
22	"(E) maintain a list of researchers and
23	rapid response volunteers; and
24	"(F) in carrying out any rapid response
25	activity with respect to an aquatic noxious weed

1	listed under section 412(f) of the Plant Protec-
2	tion Act (7 U.S.C. 7712(f)), include representa-
3	tives of the Animal and Plant Health Inspection
4	Service.
5	"(3) Criteria for identifying cases of
6	RAPID RESPONSE WARRANTING FEDERAL ASSIST-
7	ANCE.—Not later than 1 year after the date of en-
8	actment of the National Aquatic Invasive Species
9	Act of 2003, the Task Force, with the concurrence
10	of the Invasive Species Council, shall develop criteria
11	to identify cases warranting Federal assistance for
12	rapid assessment and response under this sub-
13	section, including indicative criteria relating to, at a
14	minimum—
15	"(A) the extent to which infestations of
16	aquatic invasive species may be managed suc-
17	cessfully by rapid response;
18	"(B) the extent to which rapid response ef-
19	forts may differ from ongoing management and
20	control; and
21	"(C) the extent to which infestations of
22	nonindigenous aquatic invasive species are con-
23	sidered to be an acute or chronic threat to—
24	"(i) biodiversity of native aquatic or-
25	ganisms;

1	"(ii) habitats of native fish and wild-
2	life; or
3	"(iii) human health.
4	"(4) Environmental criteria.—Not later
5	than 1 year after the date of enactment of the Na-
6	tional Aquatic Invasive Species Act of 2003, the Ad-
7	ministrator, in consultation with the Invasive Spe-
8	cies Council, the Secretary of Transportation, the
9	Task Force (including regional panels of the Task
10	Force established under section 1203), the Director,
11	and the Director of the National Marine Fisheries
12	Service, shall develop environmental criteria to mini-
13	mize nontarget environmental impacts of rapid re-
14	sponses carried out pursuant to this section.".
15	SEC. 303. DISPERSAL BARRIERS.
16	Section 1202 of the Nonindigenous Aquatic Nuisance
17	Prevention and Control Act of 1990 (16 U.S.C. 4722) is
18	amended—
19	(1) by redesignating subsections (j) and (k) as
20	subsections (l) and (m), respectively; and
21	(2) by inserting after subsection (i) the fol-
22	lowing:
23	"(j) National Dispersal Barrier Program.—
24	"(1) CHICAGO RIVER SHIP AND SANITARY
25	CANAL DISPERSAL BARRIER PROJECT.—

1	"(A) In General.—The Assistant Sec-
2	retary, with the concurrence of the Adminis-
3	trator, shall complete construction of, operate,
4	repair, and maintain, the Chicago River Ship
5	and Sanitary Canal dispersal barrier project on
6	a permanent basis.
7	"(B) Consultation.—Subparagraph (A)
8	shall be carried out in consultation with the ap-
9	propriate Federal, State, local, and other non-
10	governmental entities.
11	"(C) Construction of Barrier.—The
12	completed barrier project shall include—
13	"(i) additions to the dispersal barrier
14	in existence on the date of enactment of
15	the National Aquatic Invasive Species Act
16	of 2003, including—
17	"(I) backup power;
18	"(II) a research vessel launching
19	crane;
20	"(III) replacement electrodes;
21	"(IV) other barrier elements, as
22	available and appropriate;
23	"(V) an acoustic monitoring sys-
24	tem; and

1	"(VI) emergency egress system;
2	and
3	"(ii) construction of a second long-
4	service life dispersal barrier.
5	"(D) Feasibility study of chicago
6	RIVER SHIP AND SANITARY CANAL.—
7	"(i) In general.—Not later than 3
8	years after the date of enactment of the
9	National Aquatic Invasive Species Act of
10	2003, the Assistant Secretary, in consulta-
11	tion with appropriate Federal, State, local,
12	and non-governmental entities, shall con-
13	duct a feasibility study of the full range of
14	options available to prevent the spread of
15	aquatic invasive species through the Chi-
16	cago River Ship and Sanitary Canal dis-
17	persal barrier.
18	"(ii) Matters to be studied.—The
19	study shall—
20	"(I) provide recommendations
21	concerning additional measures and
22	long-term measures necessary to im-
23	prove the performance of the Chicago
24	River Ship and Sanitary Canal dis-
25	persal barrier; and

1	"(II) examine methods and meas-
2	ures necessary to achieve, to the max-
3	imum extent practicable—
4	"(aa) 100 percent efficacy of
5	the barrier with respect to aquat-
6	ic invasive species of fish; and
7	"(bb) maximum efficacy of
8	the barrier with respect to other
9	taxa of aquatic invasive species.
10	"(E) Reimbursement.—The State of Illi-
11	nois shall be reimbursed for all State funds ex-
12	pended on the planning, design, construction,
13	and operation and maintenance of the project
14	identified, along with any subsequent modifica-
15	tions, in the report entitled 'Aquatic Nuisance
16	Species Dispersal Barrier II', dated December
17	2002, issued under section 1135 of the Water
18	Resources Development Act of 1986 (33 U.S.C.
19	2294 note; 100 Stat. 4251).
20	"(2) Monitoring Program.—
21	"(A) Establishment.—Not later than 1
22	year after the date of enactment of the Na-
23	tional Aquatic Invasive Species Act of 2003, the
24	Secretary of the Interior shall establish an
25	interbasin and intrabasin monitoring program.

1	"(B) Required elements.—The moni-
2	toring program shall—
3	"(i) track aquatic invasive species
4	moving through—
5	"(I) the Chicago River Ship and
6	Sanitary Canal;
7	"(II) the Lake Champlain Canal;
8	"(III) other interbasin water-
9	ways; and
10	"(IV) major river systems (such
11	as the Mississippi River), as rec-
12	ommended by regional panels con-
13	vened under section 1203, in which
14	interbasin transfers of aquatic
15	invasive species have been shown to
16	pose a significant threat to fish and
17	wildlife resources;
18	"(ii) assess the efficacy of dispersal
19	barriers and other measures in preventing
20	the spread of aquatic invasive species
21	through the waterways; and
22	"(iii) identify waterways suitable for
23	dispersal barrier demonstration projects, in
24	addition to the waterways at which dis-
25	persal barrier demonstration projects were

1	carried out before the date of enactment of
2	the National Aquatic Invasive Species Act
3	of 2003.
4	"(C) Reports.—The Secretary of the In-
5	terior shall issue biennial reports describing the
6	findings of the monitoring program.
7	"(3) Prevention and mitigation plans for
8	CORPS PROJECTS.—In developing projects involving
9	interbasin waterways or other hydrologic alterations
10	that could create pathways for aquatic invasive spe-
11	cies, the Assistant Secretary shall develop adequate
12	prevention and mitigation plans for controlling the
13	dispersal of the aquatic invasive species.
14	"(4) Technical assistance.—The Adminis-
15	trator of the National Oceanic and Atmospheric Ad-
16	ministration, acting through the Great Lakes Envi-
17	ronmental Research Laboratory, shall provide tech-
18	nical assistance to appropriate entities to assist in
19	the research conducted under this subsection.
20	"(5) Additional waterways.—The Assistant
21	Secretary, with the concurrence of the Adminis-
22	trator, and other relevant Federal agencies, shall—
23	"(A) identify additional waterways suitable

for the construction of new dispersal barriers

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1	(based on the monitoring program established
2	under paragraph (2));
3	"(B) determine the feasibility of a dis-
4	persal barrier project at the Lake Champlain
5	Canal and, if feasible, establish a plan for a dis-
6	persal barrier at the Lake Champlain Canal;
7	and
8	"(C) construct, maintain, and operate such
9	dispersal barriers as necessary.
10	"(6) Reports.—Not later than 3 years after
11	the date of enactment of the National Aquatic
12	Invasive Species Act of 2003, the Assistant Sec-
13	retary and the Director shall jointly submit to Con-
14	gress a report that describes—
15	"(A) the efficacy of the Chicago River Ship
16	and Sanitary Canal dispersal barrier project;
17	and
18	"(B) a plan to provide for additional dis-
19	persal barrier demonstration projects and re-
20	lated research projects.".
21	SEC. 304. ENVIRONMENTAL SOUNDNESS.
22	Section 1202 of the Nonindigenous Aquatic Nuisance
23	Prevention and Control Act of 1990 (16 U.S.C. 4722) (as
24	amended by section 303) is amended by inserting after
25	subsection (j) the following:

1	"(k) Improvement of Treatment Methods for
2	AQUATIC INVASIVE SPECIES.—
3	"(1) Criteria to evaluate environmental
4	SOUNDNESS OF TREATMENT METHODS.—
5	"(A) IN GENERAL.—Not later than 1 year
6	after the date of enactment of the National
7	Aquatic Invasive Species Act of 2003, the Ad-
8	ministrator, in consultation with the Secretary,
9	the Invasive Species Council, and the Task
10	Force (including any regional panels of the
11	Task Force) shall promulgate criteria to evalu-
12	ate the treatment methods described in sub-
13	paragraph (B) for the purpose of ensuring that
14	the treatment methods pose no significant
15	threat of adverse effect on human health, public
16	safety, or the environment (including air quality
17	and the aquatic environment) that is acute,
18	chronic, cumulative, or collective.
19	"(B) Treatment methods.—The treat-
20	ment methods referred to in subparagraph (A)
21	are all chemical, biological, and other treatment
22	methods used in bodies of water of the United
23	States (regardless of whether the bodies of
24	water are navigable and regardless of the origin

1	of the waters), to prevent, treat, or respond to
2	the introduction of aquatic invasive species.
3	"(C) Consultation.—In carrying out
4	subparagraph (A), the Administrator shall con-
5	sult with—
6	"(i) the Secretary of Transportation;
7	"(ii) the Task Force (including the re-
8	gional panels of the Task Force established
9	under section 1203);
10	"(iii) the Director;
11	"(iv) the Assistant Secretary;
12	"(v) the Director of the National Ma-
13	rine Fisheries Service; and
14	"(vi) relevant State agencies.
15	"(2) Publication of Information on Envi-
16	RONMENTALLY SOUND TREATMENT METHODS.—The
17	Administrator, in consultation with the Invasive Spe-
18	cies Council, shall publish (not later than 1 year
19	after the date of enactment of the National Aquatic
20	Invasive Species Act of 2003) and update annu-
21	ally—
22	"(A) a list of environmentally sound treat-
23	ment methods that may apply to a potential
24	aquatic invasive species response effort;

1	"(B) accompanying research that supports
2	the environmental soundness of each approved
3	treatment method; and
4	"(C) explicit guidelines under which each
5	treatment method can be used in an environ-
6	mentally sound manner.
7	"(3) Reports.—The Invasive Species Council
8	and Task Force shall include the information de-
9	scribed in paragraph (2) in the reports submitted
10	under section $1201(f)(2)(B)$ .".
11	SEC. 305. SPECIFIC INVASIVE SPECIES CONTROL PRO-
12	GRAMS.
13	(a) Brown Tree Snake Control Program.—Sec-
14	tion 1209 of the Nonindigenous Aquatic Nuisance Preven-
15	tion and Control Act of 1990 (16 U.S.C. 4728) is amend-
16	ed to read as follows:
17	"SEC. 1209. BROWN TREE SNAKE CONTROL PROGRAM.
18	"(a) IN GENERAL.—The Task Force and the
19	Invasive Species Council shall support the continuation
20	and expansion of a regionally-based comprehensive, envi-
21	ronmentally sound program, conducted in coordination
22	with territories and possessions of the United States,
23	States, and political subdivisions, to control the brown tree
24	snake on Guam, the Commonwealth of the Northern Mar-
25	iana Islands, the State of Hawaii, and other areas in

- 1 which the brown tree snake is, or may become, established
- 2 outside of the historic range of the brown tree snake.
- 3 "(b) Components.—The program shall include—
- "(1) the expansion of Federal and territorial control programs on Guam that reduce the undesirable impact of the brown tree snake on Guam and reduce the risk of spread to areas in which the snake is not established;
  - "(2) the expansion of existing control programs in the Commonwealth of the Northern Mariana Islands and the State of Hawaii, including the establishment of interagency rapid response teams to assist local governments with detecting brown tree snakes and incipient brown tree snake populations in areas in which brown tree snakes are not established;
    - "(3) product-oriented research based on control program needs, including projects to reduce the number of brown tree snakes on Guam and an analysis of pathways for brown tree snake introduction into areas in which the species is not established;
    - "(4) the appointment of a coordinator by the Invasive Species Council to provide oversight and direction over Federal actions dealing with brown tree snake control; and

1	"(5) the continuation of the Brown Tree Snake
2	Control Committee, which shall—
3	"(A) be chaired by the coordinator; and
4	"(B) meet annually to plan and coordinate
5	ongoing brown tree snake control activities on
6	a regional and national level.".
7	(b) National Nutria Control Program.—Sub-
8	title C of title I of the Nonindigenous Aquatic Nuisance
9	Prevention and Control Act of 1990 (16 U.S.C. 4721 et
10	seq.) (as amended by section 302) is amended by adding
11	at the end the following:
12	"SEC. 1212. NATIONAL NUTRIA CONTROL PROGRAM.
13	"(a) In General.—Not later than 180 days after
14	the date of enactment of the National Aquatic Invasive
15	Species Act of 2003, the Task Force shall establish a na-
16	tional subcommittee on nutria composed of representatives
17	of—
18	"(1) the United States Fish and Wildlife Serv-
19	ice;
20	"(2) the United States Geological Survey;
21	"(3) State fish and wildlife agencies in States
22	affected by nutria; and
23	"(4) nonprofit and commercial interests in nu-
24	tria and the impact of nutria on native habitat and
25	species.

1	"(b) Proposal for Nutria Control.—Not later
2	than 1 year after the date of enactment of the National
3	Aquatic Invasive Species Act of 2003, the subcommittee
4	shall—
5	"(1) report to the Task Force on actions taken
6	to carry out this section;
7	"(2) draft a proposal for—
8	"(A) nutria control guidelines; and
9	"(B) support, criteria, and processes for
10	grants to promote State and regional partner-
11	ship efforts to control nutria in accordance with
12	the guidelines; and
13	"(3) submit the proposal to the Task Force for
14	approval, including a recommendation to the Task
15	Force on national priority tasks and resources re-
16	quired to carry out the proposal.
17	"(c) Other Duties.—In addition to the responsibil-
18	ities described in subsection (b), the subcommittee shall—
19	"(1) oversee and coordinate implementation of
20	approved national priority tasks relating to nutria
21	control;
22	"(2) review State and regional partnership
23	grant proposals and make recommendations to the
24	Task Force on making grants to carry out the pro-
25	posals; and

1	"(3) carry out additional duties assigned to the
2	subcommittee by the Task Force (including a co-
3	chairperson of the Task Force).".
4	SEC. 306. INFORMATION, EDUCATION, AND OUTREACH.
5	Section 1202(h) of the Nonindigenous Aquatic Nui-
6	sance Prevention and Control Act of 1990 (16 U.S.C.
7	4722(h)) is amended—
8	(1) by striking "(h) Education.—The Task
9	Force" and inserting the following:
10	"(h) Information, Education, and Outreach.—
11	"(1) IN GENERAL.—The Task Force"; and
12	(2) by adding at the end the following:
13	"(2) Activities.—
14	"(A) In general.—The programs carried
15	out under paragraph (1) shall include the ac-
16	tivities described in this paragraph.
17	"(B) Public outreach.—
18	"(i) Public Warnings.—Not later
19	than 180 days after the date of enactment
20	of the National Aquatic Invasive Species
21	Act of 2003, each Federal officer of an
22	agency that provides Federal funds to
23	States for building or maintaining public
24	access points to United States water bodies
25	shall amend the guidelines of the agency,

1	in consultation with relevant State agen-
2	cies, to encourage the posting of regionally-
3	specific public warnings or other suitable
4	informational and educational materials at
5	the access points regarding—
6	"(I) the danger of spread of
7	aquatic invasive species through the
8	transport of recreational watercraft;
9	and
10	"(II) methods for removing orga-
11	nisms prior to transporting a
12	watercraft.
13	"(ii) Cleaning of Watercraft at
14	MARINAS.—Not later than 1 year after the
15	date of enactment of the National Aquatic
16	Invasive Species Act of 2003, the Under
17	Secretary and the Director (in cooperation
18	with the Task Force and in consultation
19	with the States, relevant industry groups,
20	and Indian tribes) shall develop an edu-
21	cation, outreach, and training program di-
22	rected toward marinas and marina opera-
23	tors regarding—
24	"(I) checking watercraft for live
25	organisms;

1	"(II) removing live organisms
2	from the watercraft before the
3	watercraft are commercially or
4	recreationally trailered;
5	"(III) encouraging regular hull
6	cleaning and maintenance, avoiding
7	in-water hull cleaning; and
8	"(IV) other activities, as identi-
9	fied by the Secretary.
10	"(iii) Proper disposal of non-
11	NATIVE LIVE AQUATIC ORGANISMS IN
12	TRADE.—The Task Force shall—
13	"(I) not later than 1 year after
14	the date of enactment of the National
15	Aquatic Invasive Species Act of 2003,
16	develop (in consultation with industry
17	and other affected parties) guidelines
18	for proper disposal of live nonnative
19	aquatic organisms in trade; and
20	"(II) use the guidelines in appro-
21	priate public information and out-
22	reach efforts.
23	"(C) 100th meridian program.—
24	"(i) In general.—Not later than 1
25	vear after the date of enactment of the

1	National Aquatic Invasive Species Act of
2	2003, the Task Force shall expand the in-
3	formation and education program directed
4	at recreational boaters in States from
5	which watercraft are transported westward
6	across the 100th meridian.
7	"(ii) Activities.—In carrying out the
8	program, the task force shall—
9	"(I) survey owners of watercraft
10	transported westward across the
11	100th meridian to determine the
12	States of origin of most such owners;
13	"(II) provide information directly
14	to watercraft owners concerning the
15	importance of cleaning watercraft car-
16	rying live organisms before trans-
17	porting the watercraft; and
18	"(III) support education and in-
19	formation programs of the States of
20	origin to ensure that the State pro-
21	grams address westward spread.
22	"(D) Information and education pro-
23	GRAM BY NATIONAL PARK SERVICE.—The Sec-
24	retary of the Interior, acting through the Direc-
25	tor of the National Park Service, shall develop

a program to provide public outreach and other educational activities to prevent the spread of aquatic invasive species by recreational watercraft in parkland or through events sponsored by the National Park Service, including the Lewis and Clark Bicentennial Expedition.

- "(3) Outreach to industry.—The Task Force, in conjunction with the Invasive Species Council, shall carry out activities to inform and promote voluntary cooperation and regulatory compliance by members of the national and international maritime, horticultural, aquarium, aquaculture, pet trade, and other appropriate industries with screening, monitoring, and control of the transportation of aquatic invasive species.
- "(4) Public access to monitoring information.—The Task Force, the Invasive Species Council, and other relevant agencies, shall maintain information on the Internet regarding—
  - "(A) the best approaches for the public and private interests to use in assisting with national early detection and monitoring of aquatic invasive species in waters of the United States;

1	"(B) contact locations for joining a na-
2	tional network of monitoring stations;
3	"(C) approved State Management Plans
4	under section 1204(a) and Rapid Response
5	Contingency Strategies under sections
6	1211(a)(2) and 1211(c); and
7	"(D) the list of potential invaders under
8	section 1201(a)(4).".
9	TITLE IV—AQUATIC INVASIVE
10	SPECIES RESEARCH
11	SEC. 401. ECOLOGICAL, PATHWAY, AND EXPERIMENTAL RE-
12	SEARCH.
13	(a) In General.—Subtitle B of the Nonindigenous
14	Aquatic Nuisance Prevention and Control Act of 1990 (16
15	U.S.C. 4711 et seq.) (as amended by section 301) is
16	amended by adding at the end the following:
17	"SEC. 1107. ECOLOGICAL, PATHWAY, AND EXPERIMENTAL
18	RESEARCH.
19	"(a) Definition of Administering Agencies.—
20	"(1) In general.—In this section and section
21	1108, the term 'administering agencies' means—
22	"(A) the Smithsonian Environmental Re-
23	search Center;
24	"(B) the United States Geological Survey;
25	and

1	"(C) the National Oceanic and Atmos-
2	pheric Administration (including the Great
3	Lakes Environmental Research Laboratory).
4	"(2) Memorandum of understanding.—The
5	administering agencies shall enter into an agreement
6	regarding implementation of this subtitle.
7	"(3) Consultation.—In carrying out this sec-
8	tion, the administering agencies shall consult with—
9	"(A) the Task Force;
10	"(B) the Environmental Protection Agen-
11	ey;
12	"(C) the United States Fish and Wildlife
13	Service; and
14	"(D) other appropriate Federal and State
15	agencies.
16	"(4) Cooperation.—In carrying out this sec-
17	tion, the administering agencies shall contract, as
18	appropriate, or otherwise cooperate with academic
19	researchers.
20	"(b) Program.—The administering agencies shall
21	develop (not later than 18 months after the date of enact-
22	ment of the National Aquatic Invasive Species Act of
23	2003) and conduct a marine and freshwater research pro-
24	gram (including ecological and pathway surveys and ex-
25	perimentation) to assess rates of, patterns of, and condi-

1	tions surrounding introductions of nonnative aquatic spe-
2	cies in aquatic ecosystems.
3	"(c) Purpose.—The purpose of the program is to
4	support efforts to prevent the introduction of, and detect
5	and eradicate, invasive species by—
6	"(1) providing information for—
7	"(A) early detection and rapid response ef-
8	forts; and
9	"(B) relevant policy questions; and
10	"(2) assessing the effectiveness of implemented
11	policies (including any standard) to prevent the in-
12	troduction and spread of aquatic invasive species.
13	"(d) Protocol Development.—The administering
14	agencies shall—
15	"(1) establish standardized protocols for con-
16	ducting surveys that are integrated and produce
17	comparable data, and, as practicable, build on exist-
18	ing protocols and data collection methods (including
19	surveys required under subsection (b)), including—
20	"(A) protocols to support early detection
21	surveys of nonnative aquatic species conducted
22	by Federal, State, or local agencies involved in
23	the management of invasive species, including
24	surveys carried out pursuant to section 1106;

1	"(B) protocols to support comprehensive
2	ecological surveys conducted under this section
3	for purposes of research and analysis of rates
4	and patterns of invasions; and
5	"(C) protocols to support pathway surveys;
6	"(2) recommend a standardized approach for
7	classifying species;
8	"(3) when proposing protocols, consider rec-
9	ommendations made at the workshop conducted
10	under subsection (h);
11	"(4) subject the protocols to peer review;
12	(5) complete the protocols not later than 1
13	year after the date of enactment of the National
14	Aquatic Invasive Species Act of 2003;
15	"(6) revise protocols as necessary; and
16	"(7) disseminate the protocols to the Task
17	Force and other Federal, State, and local stake-
18	holders.
19	"(e) Ecological and Pathway Survey Require-
20	MENTS.—
21	"(1) In general.—Each comprehensive eco-
22	logical survey conducted under this section shall, at
23	a minimum—
24	"(A) document baseline ecological informa-
25	tion of the aquatic ecosystem, including—

1	"(i) to the maximum extent prac-
2	ticable, a comprehensive inventory of na-
3	tive species, nonnative species, and species
4	of unknown origin, present in the eco-
5	system; and
6	"(ii) the chemical and physical charac-
7	teristics of water and underlying substrate
8	in the ecosystem;
9	"(B) in the case of nonnative species, gath-
10	er information to assist in identifying—
11	"(i) the life history of the species;
12	"(ii) the environmental requirements
13	and tolerances of the species;
14	"(iii) the native ecosystems of the spe-
15	cies; and
16	"(iv) the history of the species spread
17	from the native ecosystems of the species;
18	"(C) track the establishment of nonnative
19	species, including information about the esti-
20	mated population of nonnative organisms to
21	allow an analysis of the probable date of intro-
22	duction of the species; and
23	"(D) identify the likely pathway of entry of
24	nonnative species.

1	"(2) MINIMUM REQUIREMENTS.—Each pathway
2	survey conducted under this section shall, at a min-
3	imum—
4	"(A) identify which nonnative aquatic spe-
5	cies are being introduced, or have the potential
6	to be introduced, through the pathways under
7	consideration;
8	"(B) determine the rate of organism intro-
9	duction through the pathways under consider-
10	ation; and
11	"(C) determine the practices that contrib-
12	uted to or could contribute to the introduction
13	of nonnative aquatic species through the path-
14	ways under consideration.
15	"(f) Number and Location of Survey Sites.—
16	"(1) REQUIRED SITES.—The administering
17	agencies shall designate the number and location of
18	survey sites necessary to carry out marine and fresh-
19	water research required under this section.
20	"(2) Emphasis.—In carrying out paragraph
21	(1) and subsection (g), the administering agencies
22	shall give particular consideration to—
23	"(A) the geographic diversity of sites; and
24	"(B) the diversity of human uses and bio-
25	logical characteristics of sites.

1	"(g) Competitive Grant Program.—
2	"(1) In general.—In order to assist in car-
3	rying out subsections (b) and (i), the administering
4	agencies (acting through the National Oceanic and
5	Atmospheric Administration) shall administer a pro-
6	gram to award grants to academic institutions, State
7	agencies, and other appropriate groups.
8	"(2) Administration.—The program required
9	under this section shall be competitive, peer-re-
10	viewed, and merit-based.
11	"(h) Workshop.—Not later than 120 days after the
12	date of enactment of the National Aquatic Invasive Spe-
13	cies Act of 2003, to assist in the development of the proto-
14	cols and design for the surveys under this section, the ad-
15	ministering agencies shall—
16	"(1) convene a workshop among researchers
17	from Federal and State agencies and academic insti-
18	tutions to obtain recommendations for the develop-
19	ment of the protocols and surveys; and
20	"(2) make the results of the workshop widely
21	available to the public.
22	"(i) Experimentation.—The administering agen-
23	cies shall conduct (at existing field stations and such other
24	sites as may be appropriate) coordinated experiments on
25	a range of taxonomic groups to identify—

1	"(1) the relationship between the introduction
2	and establishment of nonnative aquatic species; and
3	"(2) the circumstances necessary for the species
4	to survive and thrive.
5	"(j) National Pathways and Ecological Sur-
6	VEYS DATABASE.—
7	"(1) IN GENERAL.—The United States Geologi-
8	cal Survey shall develop, maintain, and update, in
9	consultation and cooperation with the Smithsonian
10	Environmental Research Center and the National
11	Oceanic and Atmospheric Administration, a central
12	national database of information concerning infor-
13	mation collected under section 1107(b).
14	"(2) REQUIREMENT.—The United States Geo-
15	logical Survey shall—
16	"(A) make the database widely available to
17	the public;
18	"(B) update the database not less often
19	than once every 90 days;
20	"(C) coordinate the database with existing
21	databases collecting similar information; and
22	"(D) to the maximum extent practicable,
23	format the databases in a manner such that the
24	data is useful for researchers and Federal and

1 State employees managing relevant invasive 2 species programs.". 3 (b) Vessel **PATHWAY** Surveys.—Section 1102(b)(2)(B) of Nonindigenous Aquatic Nuisance Pre-Act of 5 vention and Control 1990 (16)U.S.C. 6 4712(b)(2)(B)) is amended by striking clause (ii) and in-7 serting the following: 8 "(ii) examine other potential modes 9 for the introduction of nonnative aquatic 10 species by vessel, including hull fouling.". SEC. 402. ANALYSIS. 12 (a) In General.—Subtitle B of the Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990 (16 U.S.C. 4711 et seq.) (as amended by section 401(a)) is 14 15 amended by adding at the end the following: 16 "SEC. 1108. ANALYSIS. 17 "(a) Invasion Analysis.— 18 "(1) IN GENERAL.—Not later than 3 years 19 after the date of enactment of the National Aquatic 20 Invasive Species Act of 2003, and annually there-21 after, the administering agencies shall analyze data 22 collected under section 1107 and other relevant re-23 search, for the purpose of preventing the introduc-24 tion of, detecting, and eradicating invasive species

25

by—

1	"(A) providing information for early detec-
2	tion and rapid response efforts;
3	"(B) providing information for relevant
4	policy questions; and
5	"(C) assessing the effectiveness of imple-
6	mented policies to prevent the introduction and
7	spread of invasive species.
8	"(2) Contents.—The analysis required under
9	paragraph (1) shall include, with respect to aquation
10	invasive species—
11	"(A) an analysis of pathways to—
12	"(i) identify, and characterize as
13	high-, medium-, or low-risk, regional and
14	national pathways for the introduction of
15	nonnative aquatic species into aquatic eco-
16	systems;
17	"(ii) identify new and expanding path-
18	ways through which nonnative aquatic spe-
19	cies may be introduced into aquatic eco-
20	systems;
21	"(iii) identify handling practices that
22	contribute to the introduction of species in
23	pathways; and

1	"(iv) assess the risk that species cur-
2	rently used in commerce pose for introduc-
3	tion into aquatic ecosystems;
4	"(B) include patterns and rates of invasion
5	and susceptibility to invasion of various types of
6	bodies of water;
7	"(C) consider the ways in which the risk of
8	establishment of an aquatic invasive species
9	through a pathway is related to the identity and
10	number of organisms transported;
11	"(D) consider rates of spread and numbers
12	and types of pathways of spread of new popu-
13	lations of the aquatic invasive species and esti-
14	mate the potential for the spread and distribu-
15	tion of newly introduced invasive species based
16	on the environmental requirements and histor-
17	ical distribution of the species;
18	"(E) document factors that influence the
19	vulnerability of an ecosystem to invasion by a
20	nonnative aquatic species;
21	"(F) include a description of the potential
22	for, and impacts of, pathway management pro-
23	grams on invasion rates;

1	"(G) provide recommendations for im-
2	provements on the effectiveness of pathway
3	management;
4	"(H) to the extent practicable, determine
5	the level of reduction in live organisms of var-
6	ious taxonomic groups required to reduce to an
7	acceptable level the risk of establishment to re-
8	ceiving aquatic ecosystems; and
9	"(I) evaluate the effectiveness of manage-
10	ment actions (including any standard) at reduc-
11	ing species introductions and establishment.
12	"(3) Report.—The administering agencies
13	shall submit to the Task Force a report on analyses
14	conducted under this section.
15	"(b) Research To Assess the Potential of the
16	ESTABLISHMENT OF INTRODUCED SPECIES.—
17	"(1) In general.—Not later than 2 years
18	after the date of enactment of the National Aquatic
19	Invasive Species Act of 2003, the administering
20	agencies shall develop, conduct peer review of, and
21	submit to the Task Force a profile of the general
22	characteristics of invasive species, in order to—
23	"(A) predict, to the extent practicable,
24	whether a species planned for importation is

1	likely to invade a particular aquatic ecosystem
2	if introduced; and
3	"(B) support the development of the
4	screening process authorized under section
5	1105.
6	"(2) Research.—In developing the profile, the
7	administering agencies shall analyze the research
8	conducted under section 1107 and other research as
9	necessary to determine—
10	"(A) characteristics of general species and
11	ecosystems (taking into account the opportunity
12	for introduction into any ecosystem); and
13	"(B) circumstances that may lead to estab-
14	lishment of a nonnative aquatic organism.
15	"(3) RECOMMENDATIONS.—Based on the pro-
16	file, the administering agencies shall develop and
17	submit to the Task Force, for inclusion in the report
18	to Congress developed under section 1201(f)(2)(B),
19	recommendations concerning which planned importa-
20	tion of nonnative aquatic organisms warrant restric-
21	tion under section 1105.
22	"SEC. 1109. DISSEMINATION.
23	"(a) In General.—The Invasive Species Council, in
24	coordination with the Task Force, and the administering
25	agencies shall disseminate the information collected under

- 1 this Act to Federal, State, and local entities (including rel-
- 2 evant policymakers and private researchers with responsi-
- 3 bility over or interest in aquatic invasive species).
- 4 "(b) Reports.—The Invasive Species Council
- 5 shall—
- 6 "(1) not later than 3 years after the date of en-
- 7 actment of the National Aquatic Invasive Species
- 8 Act of 2003, submit to Congress a report that de-
- 9 scribes the actions and findings carried out under
- this Act; and
- "(2) at least once every 3 years thereafter or
- more often as necessary, update the report.
- 13 "(c) Response Strategy.—To enable Federal,
- 14 State, and local entities having responsibility for respond-
- 15 ing to the introduction of potentially harmful nonnative
- 16 aquatic species to better and more rapidly respond to
- 17 those introductions, the Invasive Species Council, in co-
- 18 ordination with the Task Force, the administering agen-
- 19 cies, and other appropriate Federal and State agencies,
- 20 shall implement a national strategy for the sharing of in-
- 21 formation collected under this Act with those entities.
- 22 "(d) Pathway Practices.—The Invasive Species
- 23 Council, in coordination with the Task Force, and the ad-
- 24 ministering agencies shall disseminate information to, and
- 25 develop an ongoing educational program for, pathway

1	users (including vendors and customers) to inform those
2	users about means by which users can prevent the inten-
3	tional or unintentional introduction of nonnative aquation
4	species into aquatic ecosystems.
5	"SEC. 1110. TECHNOLOGY DEVELOPMENT DEMONSTRATION
6	AND VERIFICATION.
7	"(a) Environmentally Sound Technology De-
8	VELOPMENT, DEMONSTRATION AND VERIFICATION.—
9	"(1) In general.—Not later than 1 year after
10	the date of enactment of the National Aquation
11	Invasive Species Act of 2003, the Administrator, in
12	consultation with the Army Corps of Engineers and
13	the administering agencies, shall develop and imple-
14	ment a grant program to fund research, develop-
15	ment, demonstration, and verification of environ-
16	mentally sound cost-effective technologies and meth-
17	ods to control and eradicate aquatic invasive species
18	"(2) Purposes.—Proposals funded under this
19	program shall—
20	"(A) provide funds to support on-going ef-
21	forts of Federal, State, or local officials to con-
22	trol and eradicate aquatic invasive species in an
23	environmentally sound manner;
24	"(B) increase the number of environ-
25	mentally sound technologies or methods Fed-

1	eral, State, or local officials may use to control
2	or eradicate aquatic invasive species;
3	"(C) provide for the demonstration or dis-
4	semination of the technologies or methods to
5	potential end-users; and
6	"(D) verify that any technology or practice
7	meets any appropriate criteria developed for ef-
8	fectiveness and environmental soundness that
9	are established by the Administrator.
10	"(3) Preference.—In making grants under
11	this subsection, the Administrator shall give pref-
12	erence to proposals that meet criteria developed for
13	environmental soundness that are established by the
14	Administrator.
15	"(4) Merit review.—Grants awarded through
16	this subsection shall be awarded through a competi-
17	tive, peer-reviewed process and shall be merit-based.
18	"(5) Report.—Not later than 3 years after the
19	date of enactment of the National Aquatic Invasive
20	Species Act of 2003, the Administrator shall submit
21	to Congress a report on the program conducted
22	under this subsection, including findings and rec-
23	ommendations of the Secretary with respect to tech-
24	nologies and methods described in paragraph (1).

1	"(b) Dispersal Barrier Research Program.—
2	Not later than 1 year after the date of enactment of the
3	National Aquatic Invasive Species Act of 2003, the Assist-
4	ant Secretary, in conjunction with the Director and other
5	appropriate Federal agencies and academic researchers,
6	shall establish a research, development, and demonstration
7	program—
8	"(1) to study environmentally sound methods
9	and technologies to reduce dispersal of aquatic
10	invasive species through interbasin waterways; and
11	"(2) to assess the potential for using those
12	methods and technologies in other waterways.".
13	(b) Expansion of Vessel Pathway Technology
14	Demonstration Program.—Section 1104(b) of the
15	Nonindigenous Aquatic Nuisance Prevention and Control
16	Act of 1990 (16 U.S.C. 4712(b)) is amended—
17	(1) by redesignating paragraphs (4) and (5) as
18	paragraphs (7) and (8), respectively; and
19	(2) by inserting after paragraph (3) the fol-
20	lowing:
21	"(4) Additional purposes.—The Secretary
22	of the Interior and the Secretary of Commerce may
23	demonstrate and verify technologies under this sub-
24	section to monitor and control pathways of organism

1	transport on vessels other than through ballast
2	water.
3	"(5) Priority.—In making grants under this
4	subsection, the Secretary of the Interior and the
5	Secretary of Commerce shall give priority to tech-
6	nologies that meet criteria established in any testing
7	protocol developed under the Environmental Tech-
8	nology Verification program of the Administrator.
9	"(6) Workshop.—The Secretary of the Inte-
10	rior and the Secretary of Commerce shall—
11	"(A) hold an annual workshop to encour-
12	age the exchange of information between and
13	among—
14	"(i) principal investigators for which
15	funds are made available under this sub-
16	section; and
17	"(ii) researchers conducting research
18	directly relating to vessel pathway tech-
19	nology development; and
20	"(B) make the results of the proceedings
21	widely available to the public.".
22	SEC. 403. VESSEL PATHWAY STANDARDS RESEARCH.
23	Subtitle B of the Nonindigenous Aquatic Nuisance
24	Prevention and Control Act of 1990 (16 U.S.C. 4711 et

1	seq.) (as amended by section 402(a)) is amended by add-
2	ing at the end the following:
3	"SEC. 1111. VESSEL PATHWAY STANDARDS RESEARCH.
4	"(a) Research Program.—
5	"(1) IN GENERAL.—The Secretary and the Ad-
6	ministrator (in coordination with the National Oce-
7	anic and Atmospheric Administration, the Task
8	Force, and other appropriate Federal agencies and
9	academic researchers) shall develop and conduct a
10	coordinated research program to support the estab-
11	lishment and implementation of standards to prevent
12	the introduction and spread of aquatic invasive spe-
13	cies by vessels.
14	"(2) Components.—The research program
15	shall include programs to—
16	"(A) characterize physical, chemical, and
17	biological harbor conditions relevant to ballast
18	discharge into waters of the United States to
19	provide information for the design and imple-
20	mentation of vessel vector control technologies
21	and practices;
22	"(B) develop testing protocols for deter-
23	mining the effectiveness of vector monitoring
24	and control technologies and practices;

1	"(C) research and demonstrate methods
2	for mitigating the spread of aquatic invasive
3	species by coastal voyages, including the explo-
4	ration of the effectiveness of alternative ex-
5	change zones in the near coastal areas and
6	other methods proposed to reduce the transfers
7	of organisms;
8	"(D) verify the practical effectiveness of
9	any type approval process to ensure that the
10	process produces repeatable and accurate as-
11	sessments of treatment effectiveness; and
12	"(E) evaluate the effectiveness and resid-
13	ual risk and environmental impacts associated
14	with any standard established with respect to a
15	ship pathway through experimental research.
16	"(b) Performance Test.—Not later than 1 year
17	after the date of enactment of the National Aquation
18	Invasive Species Act of 2003, the Secretary, in conjunc-
19	tion with the National Institute of Standards and Tech-
20	nology and the Maritime Administration, shall design a
21	performance test for ballast water exchange (such as a dye
22	study) to measure the effectiveness of ballast water ex-
23	change.

1	"(1) IN GENERAL.—The Secretary shall enter
2	into an agreement with the National Academy of
3	Sciences under which the Academy shall—
4	"(A) identify the relative risk of transfer of
5	various taxonomic groups of invasive species by
6	different vessel modes;
7	"(B)(i) assess the extent to which a ballast
8	water standard that virtually eliminates the risk
9	of introduction of invasive species by ballast
10	water may relate to the risk of introductions by
11	all vessel modes; and
12	"(ii) explain the degree of uncertainty in
13	such an assessment; and
14	"(C)(i) recommend methods for reducing
15	the transfers of invasive species by vessels by
16	addressing all parts and systems of vessels and
17	all related modes of transport of invasive orga-
18	nisms; and
19	"(ii) identify the research, development,
20	and demonstration needed to improve the infor-
21	mation base to support those methods, includ-
22	ing economic information.
23	"(2) Report.—Not later than 2 years after the
24	date of enactment of the National Aquatic Invasive
25	Species Act of 2003, the Secretary shall submit to

1	Congress a report that describes the results of the
2	study under paragraph (1).

- "(3) Implementation of Recommendations.—Not later than the later of the date that is 1 year after the date of submission of the report under paragraph (2) or the date that is 3 years after the date of enactment of the National Aquatic Invasive Species Act of 2003, the Task Force, in conjunction with the Administrator, administering agencies, and other appropriate Federal agencies, shall submit to the Secretary a report that describes recommendations for—
  - "(A) a vessel pathway treatment standard that incorporates all potential modes of transfer by vessel; and
    - "(B) methods for type approval and accurate monitoring of treatment performance that are simple and streamlined and follow established protocols.

## "(d) Working Group.—

"(1) IN GENERAL.—Not later than 2 years after the date of issuance by the Secretary of any standard relating to the introduction by vessels of invasive species, the Secretary shall convene a working group (including the Administrator, the administrator, the administrator).

1	istering agencies, and other appropriate Federal and
2	State agencies and academic researchers) to evaluate
3	the effectiveness of that standard and accompanying
4	implementation protocols.
5	"(2) Duties.—The duties of the working group
6	shall include, at a minimum—
7	"(A) reviewing the effectiveness of the
8	standard in reducing the establishment of
9	invasive species in aquatic ecosystems, taking
10	into consideration the data collected under sec-
11	tion 1107; and
12	"(B) submitting recommendations to the
13	Secretary (who shall make the recommenda-
14	tions widely available to the public) for the revi-
15	sion of the standard and type approval process
16	in order to ensure—
17	"(i) effectiveness in reducing introduc-
18	tions of invasive species; and
19	"(ii) the effectiveness of accurate
20	shipboard monitoring of treatment per-
21	formance in a simple and streamlined man-
22	ner.".

1	SEC. 404. GRADUATE EDUCATION IN SYSTEMATICS AND
2	TAXONOMY.
3	Subtitle B of the Nonindigenous Aquatic Nuisance
4	Prevention and Control Act of 1990 (16 U.S.C. 4711 et
5	seq.) (as amended by section 403) is amended by adding
6	at the end the following:
7	"SEC. 1112. RESEARCH IN SYSTEMATICS AND TAXONOMY.
8	"(a) In General.—The National Science Founda-
9	tion shall establish a program to award grants to research-
10	ers at institutions of higher education and museums to
11	carry out research in systematics and taxonomy.
12	"(b) Purposes.—The purposes of the program
13	are—
14	"(1) to encourage scientists to pursue careers
15	in systematics and taxonomy to ensure a continuing
16	knowledge base in those disciplines;
17	"(2) to ensure that there will be adequate ex-
18	pertise in systematics and taxonomy to meet Fed-
19	eral, State, and local needs to identify invasive spe-
20	cies;
21	"(3) to develop that expertise throughout the
22	United States with an emphasis on regional diver-
23	sity; and
24	"(4) to draw on existing expertise in system-
25	atics and taxonomy at institutions of higher edu-

1	cation and museums to train the next generation of
2	systematists and taxonomists.
3	"(c) Administration.—
4	"(1) Merit review.—Grants awarded through
5	this section shall be awarded through a competitive,
6	peer-reviewed process and shall be merit-based.
7	"(2) Preferences.—In making grants under
8	this section, the National Science Foundation shall
9	provide a preference for—
10	"(A) projects in a diverse set of ecosystems
11	and geographic locations;
12	"(B) if applicable, projects that are inte-
13	grated with the Long Term Ecological Research
14	Network created by the National Science Foun-
15	dation;
16	"(C) projects that include student partici-
17	pation; and
18	"(D) projects carried out by institutions of
19	higher education and museums that actively
20	train students to become experts in systematics
21	and taxonomy.".

## 1 TITLE V—COORDINATION

2	SEC. 501. PROGRAM COORDINATION.
3	(a) Membership of Task Force.—Section 1201(b)
4	of the Nonindigenous Aquatic Nuisance Prevention and
5	Control Act of 1990 (16 U.S.C. 4721) is amended—
6	(1) in paragraph (6), by striking "and" at the
7	end;
8	(2) by redesignating paragraph (7) as para-
9	graph (12); and
10	(3) by inserting after paragraph (6) the fol-
11	lowing:
12	"(7) the Director of the United States Geologi-
13	cal Survey;
14	"(8) the Director of the Smithsonian Environ-
15	mental Research Center;
16	"(9) the Secretary of State;
17	"(10) the Secretary of Transportation;
18	"(11) the Secretary of Homeland Security;
19	and".
20	(b) Coordination With Invasive Species Coun-
21	CIL.—Section 1201(f) of the Nonindigenous Aquatic Nui-
22	sance Prevention and Control Act of 1990 (16 U.S.C.
23	4721(f)) is amended—
24	(1) by striking "Each Task Force member" and
25	inserting the following:

1	"(1) IN GENERAL.—Each member of the Task
2	Force"; and
3	(2) by adding at the end the following:
4	"(2) Invasive species council.—The
5	Invasive Species Council shall—
6	"(A) coordinate and cooperate with the
7	Task Force in carrying out the duties of the
8	Invasive Species Council relating to aquatic
9	invasive species;
10	"(B) not later than 2 years after the date
11	of enactment of the National Aquatic Invasive
12	Species Act of 2003, and every 3 years there-
13	after, submit to Congress a report that summa-
14	rizes the status of the conduct of activities au-
15	thorized by and required under this Act; and
16	"(C) establish any regional panels or task
17	forces in coordination with the regional panels
18	of the Task Force convened under section
19	1203.".
20	(e) Coordination With Other Programs.—Sec-
21	tion 1202(c) of the Nonindigenous Aquatic Nuisance Pre-
22	vention and Control Act of 1990 (16 U.S.C. 4722(c)) is
23	amended by adding at the end the following:
24	"(3) Recommendations for lists.—

1	"(A) IN GENERAL.—The Task Force shall
2	annually recommend to Federal agencies of ju-
3	risdiction such additions of aquatic invasive
4	species as the Task Force determines to be ap-
5	propriate for inclusion on—
6	"(i) any list of species of wildlife cov-
7	ered by section 42 of title 18, United
8	States Code (including regulations); or
9	"(ii) any list of noxious weeds under
10	the Plant Protection Act (7 U.S.C. 7701 et
11	seq.) (including regulations promulgated
12	under that Act contained in part 360 of
13	title 7, Code of Federal Regulations (or
14	any successor regulations)).
15	"(B) Process.—The Task Force may use
16	the screening process developed pursuant to
17	section 1105 to identify species pursuant to
18	subparagraph (A).".
19	(d) REGIONAL COORDINATION.—Section 1203 of the
20	Nonindigenous Aquatic Nuisance Prevention and Control
21	Act of 1990 (16 U.S.C. 4723) is amended by adding at
22	the end the following:
23	"(d) Annual Inter-Regional Meeting.—The
24	Task Force shall annually convene all regional panels es-
25	tablished pursuant to this Act for the purpose of informa-

1	tion transfer between and among panels, and between the
2	panels and the Task Force, regarding aquatic invasive
3	species management.
4	"(e) Organizations.—
5	"(1) In general.—An interstate organization
6	that has a Federal charter authorized by law or ex-
7	ecutive order for purposes of fisheries or natural re-
8	source management may develop and implement—
9	"(A) regional aquatic invasive species man-
10	agement plans; and
11	"(B) rapid response activities that are—
12	"(i) requested by the Governors of the
13	member States of the organization; and
14	"(ii) consistent with any relevant
15	State aquatic invasive species management
16	plans.
17	"(2) Funds.—The interstate organization may
18	receive funds under this Act to implement activities
19	under the regional aquatic invasive species manage-
20	ment plan of the organization.".
21	(e) State Aquatic Invasive Species Manage-
22	MENT PLANS.—Section 1204(a) of the Nonindigenous
23	Aquatic Nuisance Prevention and Control Act of 1990 (16
24	U.S.C. 4724(a)) is amended—
25	(1) in paragraph (2)—

1	(A) in subparagraph (A), by inserting be-
2	fore the semicolon at the end the following: ",
3	including, in accordance with guidelines issued
4	by the Task Force under paragraph (5)—
5	"(i) rapid assessment and response
6	contingency strategies under section 1211;
7	"(ii) early detection strategies under
8	section $1211(a)(2)(D)$ ;
9	"(iii) aquatic plant control programs
10	conducted pursuant to other laws; and
11	"(iv) screening of planned introduc-
12	tions pursuant to section 1105"; and
13	(B) in subparagraph (D), by inserting "in-
14	clude" after "(D)"; and
15	(2) by adding at the end the following:
16	"(5) Guidelines.—
17	"(A) IN GENERAL.—Not later than 1 year
18	after the date of enactment of the National
19	Aquatic Invasive Species Act of 2003, the Task
20	Force shall amend the guidelines of the Task
21	Force for the development of plans under this
22	subsection, including guidelines for reporting
23	progress in implementing the plans, to encour-
24	age consistency in implementation of and re-
25	porting under those plans.

1	"(B) Guidelines.—The guidelines pub-
2	lished under subparagraph (A) shall include, for
3	the purpose of paragraph (2)(A), guidelines
4	concerning—
5	"(i) rapid response contingency strate-
6	gies under section 1211;
7	"(ii) early detection strategies under
8	section 1211(a)(2)(D);
9	"(iii) aquatic plant control programs
10	conducted pursuant to other laws;
11	"(iv) screening of planned introduc-
12	tions pursuant to section 1105; and
13	"(v) the review and revision of re-
14	quirements of this subsection and the re-
15	approval process under this subsection.
16	"(6) Relationship to other plans.—
17	"(A) In General.—A plan approved
18	under paragraph (4) shall be deemed to meet
19	any State planning requirement of the program
20	established under section 104 of the River and
21	Harbor Act of 1958 (33 U.S.C. 610) for a plan
22	to control noxious aquatic plant growths.
23	"(B) Enforcement.—Funds provided to
24	States for implementation of plans pursuant to
25	section 1204 may be used by States to enforce

requirements relating to aquatic invasive species
under the Plant Protection Act (7 U.S.C. 7701
et seq.) (including regulations promulgated
under that Act contained in part 360 of title
7, Code of Federal Regulations (or any successor regulations)).

"(7) ELIGIBILITY OF EXISTING PLANS.—A plan approved under this section as of the day immediately before the date of enactment of the National Aquatic Invasive Species Act of 2003 shall be eligible to receive a grant awarded under this section.

## "(8) REVIEW AND REVISION.—

"(A) IN GENERAL.—Each State shall periodically review and, as necessary, revise the management plan of the State in accordance with guidelines of the Task Force.

"(B) UPDATE OF EXISTING PLANS.—A plan approved under this section as of the day immediately before the date of enactment of the National Aquatic Invasive Species Act of 2003 shall be updated after the date of enactment of the National Aquatic Invasive Species Act of 2003 to conform to the guidelines published under paragraph (5).

1	"(9) OTHER STATE MANAGEMENT PLANS.—In
2	addition to the management plans required under
3	this subsection, the Director shall encourage each
4	State to develop and implement new, and expand ex-
5	isting, State management plans to improve State ac-
6	tions to prevent and control aquatic invasive spe-
7	cies.".
8	(f) Grant Program.—Section 1204(b)(1) of the
9	Nonindigenous Aquatic Nuisance Prevention and Control
10	Act of 1990 (16 U.S.C. 4724(b)(1)) is amended by strik-
11	ing "subsection (a) for the implementation of those
12	plans." and inserting the following: "subsection (a)—
13	"(A) to develop those plans with a total
14	amount that does not exceed 10 percent of the
15	amounts made available for grants under this
16	section for each fiscal year; and
17	"(B) to implement those plans.".
18	SEC. 502. INTERNATIONAL COORDINATION.
19	(a) In General.—Subtitle E of the Nonindigenous
20	Aquatic Nuisance Prevention and Control Act of 1990 (16
21	U.S.C. 4751 et seq.) is amended—
22	(1) by striking the subtitle heading and insert-
23	ing the following:
24	"Subtitle E—Administration";
25	and

1	(2) by adding at the end the following:
2	"SEC. 1402. INTERNATIONAL COORDINATION.
3	"(a) In General.—The Task Force, the Invasive
4	Species Council, and the Secretary of State shall, to the
5	maximum extent practicable, ensure that international ef
6	forts to prevent, detect, monitor, assess, and contro
7	aquatic invasive species (including through the Inter-
8	national Maritime Organization, the International Con-
9	vention on the Exploration of the Sea, the Global Invasive
10	Species Program, and other appropriate programs) are co
11	ordinated with policies of the United States established by
12	this Act.
13	"(b) Coordination With Neighboring Coun
14	TRIES.—
15	"(1) In General.—The Task Force, in con-
16	sultation with the Secretary of State, shall include in
17	the report required by section 1202(m) a description
18	of the means by which international agreements and
19	regulations with countries that share a border with
20	the United States will be implemented and enforced
21	by Federal agencies (including a clarification of the
22	roles and responsibilities of those agencies).
23	"(2) Negotiations.—As soon as practicable
24	after the date of enactment of the National Aquatic

1	Invasive Species Act of 2003, the Secretary of State
2	may enter into negotiations with—
3	"(A) Canada to issue a request that the
4	International Joint Commission, not later than
5	18 months after the date of enactment of that
6	Act, review, research, conduct hearings on, and
7	submit to the parties represented on the Inter-
8	national Joint Commission a report that de-
9	scribes the success of current policies of govern-
10	ments in the United States and Canada having
11	jurisdiction over the Great Lakes in antici-
12	pating and preventing biological invasions of
13	the aquatic ecosystem in the Great Lakes, in-
14	cluding—
15	"(i) an analysis of current Federal,
16	State or Provincial, local, and international
17	laws, enforcement practices, and agree-
18	ments;
19	"(ii) an analysis of prevention efforts
20	relating to all likely pathways for biological
21	invasions of the aquatic ecosystem in the
22	Great Lakes; and
23	"(iii) recommendations of the Inter-
24	national Joint Commission for means by
25	which to improve and harmonize the poli-

1	cies and enforcement practices referred to
2	in clause (i); and
3	"(B) Mexico, to ensure coordination of ef-
4	forts of the United States with efforts of Mex-
5	ico to manage invasive species established in the
6	United States-Mexico border region.".
7	TITLE VI—AUTHORIZATION OF
8	<b>APPROPRIATIONS</b>
9	SEC. 601. AUTHORIZATION OF APPROPRIATIONS.
10	Section 1301 of the Nonindigenous Aquatic Nuisance
11	Prevention and Control Act of 1990 (16 U.S.C. 4741) is
12	amended to read as follows:
13	"SEC. 1301. AUTHORIZATION OF APPROPRIATIONS.
14	"(a) In General.—Except as otherwise provided in
15	this section, there are authorized to be appropriated such
16	sums as are necessary to carry out this Act for each of
17	fiscal years 2004 through 2008.
18	"(b) Task Force and Aquatic Invasive Species
19	PROGRAM.—There are authorized to be appropriated for
20	each of fiscal years 2004 through 2008—
21	"(1) \$8,000,000, to carry out activities of the
22	Task Force under section 1202, of which—
23	"(A) \$4,000,000 shall be used by the Di-
24	rector;

1	"(B) $$3,000,000$ shall be used by the Na-
2	tional Oceanic and Atmospheric Administration;
3	and
4	"(C) $$1,000,000$ shall be used by the
5	Invasive Species Council;
6	"(2) \$30,000,000, to provide grants under sec-
7	tion 1204(b);
8	"(3) \$3,000,000, to provide assistance to the
9	regional panels of the Task Force;
10	"(4) \$1,000,000, to be used by the Director to
11	carry out section 1105(g); and
12	"(5) \$6,000,000, to be used by the Secretary of
13	the Interior to carry out section 1209.
14	"(c) International Coordination.—There is au-
15	thorized to be appropriated to the Department of State
16	to carry out section 1403 \$1,000,000 for each of fiscal
17	years 2004 through 2008.
18	"(d) Prevention of Introduction by Vessels
19	OF AQUATIC INVASIVE SPECIES INTO WATERS OF THE
20	United States.—There are authorized to be appro-
21	priated for each of fiscal years 2004 through 2008—
22	"(1) $$6,000,000$ , to be used by the Secretary to
23	carry out section 1101;
24	"(2) \$2,500,000, to be used by the Adminis-
25	trator to carry out section 1101: and

1	"(3) \$2,750,000, to be used by the Task Force
2	to carry out section 1101, of which—
3	"(A) \$1,500,000 shall be used by the Di-
4	rector; and
5	"(B) $$1,250,000$ shall be used by the Na-
6	tional Oceanic and Atmospheric Administration.
7	"(e) Prevention of the Introduction by Non-
8	VESSEL PATHWAYS OF AQUATIC INVASIVE SPECIES INTO
9	Waters of the United States.—There are authorized
10	to be appropriated for each of fiscal years 2004 through
11	2008—
12	"(1) \$5,000,000, to carry out the priority path-
13	way management program under section 1210, of
14	which—
15	"(A) $$2,000,000$ shall be used by the Na-
16	tional Oceanic and Atmospheric Administration;
17	and
18	"(B) \$3,000,000 shall be used by the Di-
19	rector;
20	"(2) \$1,000,000, to be used by the Invasive
21	Species Council to establish screening guidelines
22	under section 1105(b); and
23	"(3) \$3,500,000, to be used by the Director to
24	promulgate and implement screening requirements
25	under section 1105(g).

1	"(f) Early Detection and Monitoring.—There
2	is authorized to be appropriated, to carry out early detec-
3	tion, monitoring, and survey planning and implementation
4	under section 1106, \$2,000,000 for each of fiscal years
5	2004 and 2005 and \$10,000,000 for each of fiscal years
6	2006 through 2008, of which—
7	"(1) for each of fiscal years 2004 and 2005—
8	"(A) \$1,000,000 shall be used by the Na-
9	tional Oceanic and Atmospheric Administration
10	and
11	"(B) \$1,000,000 shall be used by the Di-
12	rector; and
13	"(2) for each of fiscal years 2006 through
14	2008—
15	"(A) \$5,000,000 shall be used by the Na-
16	tional Oceanic and Atmospheric Administration
17	and
18	"(B) $$5,000,000$ shall be used by the Di-
19	rector.
20	"(g) Containment and Control.—
21	"(1) DISPERSAL BARRIERS.—There are author-
22	ized to be appropriated for each of fiscal years 2004
23	through 2008—
24	"(A) \$300,000, to be used by the Assistant
25	Secretary in carrying out operation and mainte-

1	nance of the Chicago River Canal Dispersal
2	Barrier under section 1202(j)(1);
3	"(B) \$1,800,000, to be used by the Assist-
4	ant Secretary in carrying out the complete con-
5	struction of the Chicago River Canal Dispersal
6	Barrier;
7	"(C) \$8,000,000, to be used by the Assist-
8	ant Secretary for the construction of a second
9	long-service life barrier for the Chicago River
10	Canal;
11	"(D) \$500,000, to be used by the Assist-
12	ant Secretary to carry out a feasibility study for
13	the construction described in subparagraph (C);
14	and
15	"(E) \$2,150,000, to be used by the Direc-
16	tor to carry out the monitoring program under
17	section $1202(j)(2)$ .
18	"(2) Rapid Response.—There are authorized
19	to be appropriated for each of fiscal years 2004
20	through 2008—
21	"(A) \$25,000,000, to the rapid response
22	fund of the Secretary of the Interior established
23	under section 1211;
24	"(B) $$1,000,000$ , to be used by the
25	Invasive Species Council in developing the State

1	and regional rapid response contingency strat-
2	egy under section 1211; and
3	"(C) $$1,500,000$ , to be used for Federal
4	rapid response teams under section 1211(e), of
5	which—
6	"(i) \$500,000 shall be used by the
7	National Oceanic and Atmospheric Admin-
8	istration; and
9	"(ii) \$1,000,000 shall be used by the
10	Director.
11	"(3) Environmental soundness.—There is
12	authorized to be appropriated for establishment
13	under section 1202(k) of criteria for the improve-
14	ment of treatment methods for aquatic invasive spe-
15	cies \$600,000 for each of fiscal years 2004 through
16	2008.
17	"(4) National nutria control program.—
18	There is authorized to be appropriated to the Direc-
19	tor to carry out the national nutria control program
20	under section 1212 \$3,000,000 for each of fiscal
21	years 2004 through 2008.
22	"(h) Information, Education and Outreach.—
23	There are authorized to be appropriated for each of fiscal
24	years 2004 through 2008—

1	"(1) \$500,000, to be used by the Secretary of
2	the Interior to carry out the information and edu-
3	cation program under section 1202(h)(2)(D);
4	"(2) \$750,000, to be used by the Director in
5	carrying out the 100th meridian program under sec-
6	tion $1202(h)(2)(C)$ ;
7	"(3) \$2,000,000, to be used to carry out infor-
8	mational and educational activities of the Task
9	Force under section 1202(h), of which—
10	"(A) \$1,000,000 shall be used by the Na-
11	tional Oceanic and Atmospheric Administration
12	and
13	"(B) $$1,000,000$ shall be used by the Di-
14	rector; and
15	"(4) \$500,000, to be used by the National Oce-
16	anic and Atmospheric Administration to carry out
17	section $1202(h)(2)(B)(ii)$ .
18	"(i) Research.—
19	"(1) Ecological and pathway research
20	AND ANALYSIS.—There are authorized to be appro-
21	priated for each of fiscal years 2004 through 2008—
22	"(A) \$17,000,000, to be used by the Na-
23	tional Oceanic and Atmospheric Administration
24	to carry out sections 1107 and 1108 of which

1	\$13,000,000 shall be used to carry out the
2	grant program under section 1107(g));
3	"(B) \$4,000,000, to be used by the Smith-
4	sonian Environmental Research Center to carry
5	out sections 1107 and 1108;
6	"(C) \$4,500,000, to be used by the United
7	States Geological Survey to carry out sections
8	1107 and 1108, of which \$500,000 shall be
9	used to develop, maintain, and update the data-
10	base required under section 1107(j)); and
11	"(D) \$1,650,000, to be used by the Great
12	Lakes Environmental Research Laboratory to
13	carry out the demonstration program under sec-
14	tion 1202(i).
15	"(2) DISSEMINATION.—There is authorized to
16	be appropriated to provide for the dissemination of
17	information by the Invasive Species Council under
18	section 1109 \$500,000 for each of fiscal years 2004
19	through 2008.
20	"(3) Technology development, dem-
21	ONSTRATION, AND VERIFICATION.—There are au-
22	thorized to be appropriated for each of fiscal years
23	2004 through 2008—
24	"(A) \$2,500,000, to be used by the Admin-
25	istrator for the purposes of environmental

1	soundness screening and improvement under
2	section 1110(a);
3	"(B) \$1,000,000, to be used by the Assist-
4	ant Secretary to carry out the program under
5	section 1110(b); and
6	"(C) \$7,500,000, to carry out vessel path-
7	way technology development under sections
8	1104 and 1301(e).
9	"(4) Vessel Pathway Standards Re-
10	SEARCH.—There are authorized to be appro-
11	priated—
12	"(A) for each of fiscal years 2004 through
13	2008, \$3,000,000, to be used for research in
14	support of vessels pathway standards and tech-
15	nology evaluation under section 1111(a) of
16	which—
17	"(i) \$1,500,000 shall be used by the
18	Administrator; and
19	"(ii) \$2,000,000 shall be used by the
20	Secretary of the Coast Guard;
21	"(B) for each of fiscal years 2004 through
22	2006, \$500,000, to be used by the Coast Guard
23	to carry out the performance test required
24	under section 1111(b); and

1	"(C) for fiscal year 2004, \$500,000, to be
2	used by the Secretary of the Coast Guard to
3	enter into an agreement with the National
4	Academy of Sciences to carry out the study re-
5	quired under section 1111(c).
6	"(5) Research in systematics and tax-
7	ONOMY.—There is authorized to be appropriated for
8	the National Research Foundation to provide re-
9	search grants for systematics and taxonomy under
10	section 1112 \$2,500,000 for each of fiscal years
11	2004 through 2008.".
12	TITLE VII—CONFORMING
13	<b>AMENDMENTS</b>
14	SEC. 701. CONFORMING AMENDMENTS.
15	(a) In General.—The Nonindigenous Aquatic Nui-
16	sance Prevention and Control Act of 1990 is amended—
17	(1) in section 1102 (16 U.S.C. 4712)—
18	(A) in subsection (a), by striking the sub-
19	section heading and inserting the following:
20	"(a) Studies on Introduction of Aquatic Invasive
21	Species by Vessels.—"; and
22	(B) in subsection (b)—
23	(i) by striking paragraph (1); and

1	(ii) by redesignating paragraphs (2)
2	and (3) as paragraphs (1) and (2), respec-
3	tively;
4	(2) in subtitle C (16 U.S.C. 4721 et seq.), by
5	striking the subtitle heading and inserting the fol-
6	lowing:
7	"Subtitle C-Prevention and Con-
8	trol of Aquatic Invasive Species
9	Dispersal";
10	(3) in section 1201(a) (16 U.S.C. 4721(a)), by
11	striking "Nuisance Species" and inserting "Invasive
12	Species";
13	(4) in section 1202 (16 U.S.C. 4722), by strik-
14	ing the section heading and inserting the following:
15	"SEC. 1202. AQUATIC INVASIVE SPECIES PROGRAM.";
16	(5) in section 1204 (16 U.S.C. 4724), by strik-
17	ing the section heading and inserting the following:
18	"SEC. 1204. STATE AQUATIC INVASIVE SPECIES MANAGE-
19	MENT PLANS.";
20	and
21	(6) by striking "aquatic nuisance species" each
22	place it appears and inserting "aquatic invasive spe-
23	cies".
24	(b) Short Title.—

1	(1) Section 1001 of the Nonindigenous Aquatic
2	Nuisance Prevention and Control Act of 1990 (16
3	U.S.C. 4701) is amended by striking "Nonindige-
4	nous Aquatic Nuisance" and inserting "Nonindige-
5	nous Aquatic Invasive Species".

(2) References.—Any reference in a law, map, regulation, document, paper, or other record of the United States to the Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990 shall be deemed to be a reference to the Nonindigenous Aquatic Invasive Species Prevention and Control Act of 1990.

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